Australian Orchid Review

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Spatulate Dendrobiums
New Orchid Hybrids Listing
Ultra-early Cymbidiums in Australia

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Volume 56 – No. 3 JUNE, 1991

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YORK MEREDITH

decided not to divide and repot these slippers this year. So he's selling them as multi-growth plants for only $25.

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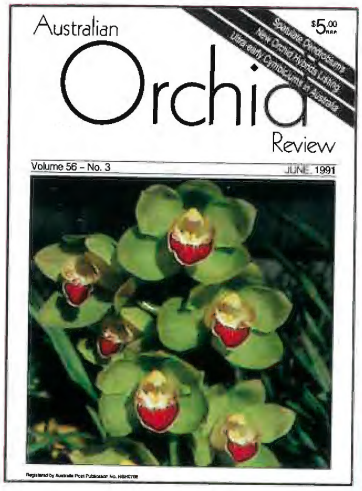

Cymbidium (Maureen Grapes 'Natalie' x Wild Colonial Boy 'Peter') 'Alexandra'. This magnificent ultra-early green intermediate illustrates the outstanding potential of second generation Peter Pan 'Greensleeves' hybrids. Hybridised by Schaefers Orchids — *Photo: Judy Schaefer.* See page 4.

(Poetic Fair x Winter Paradise) 'Trump'

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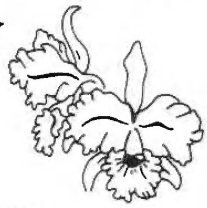

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Volume 56 — No. 3 June, 1991

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Some observations on ultra-early Cymbidiums in Australia

by Neville and Judy Schaefer

For some time in Australia, there has been a steady interest in the development of ultra-early cymbidiums (usually defined in the Southern Hemisphere as flowering for Mother's Day). However, it has only been in the last decade that we have seen the rapid popularisation of this type of cymbidium for both commercial and hobbyist growers alike. This rapid upsurge in popularity has been largely the result of the success of the tetraploid Peter Pan for the breeding of intermediate cymbidiums and of various Trigo Royale clones for the breeding of the standards. The impact of these breeding lines will be discussed in this article, together with an assessment of future breeding trends for Mother's Day flowering cymbidiums in Australia.

In both the Northern and Southern Hemispheres there has been a push for early flowers suitable for the cut flower trade. In the Northern Hemisphere, this push has traditionally been for reliable Christmas flowers (equivalent to June 25th in the Southern Hemisphere). More recently in Europe, there has been a desire to displace the later Southern Hemisphere cut flower imports. In Australia the push has been for Mother's Day flowers which, except for ourselves, John and Melita Gulbis and Ross and Aileen Gowling, have been basically ignored with most commercial cut flower growers concentrating on the export market which starts after the Northern hemisphere flowers have finished (usually in early June). The advent of the Cymbidium pot plant market and the excellent prices created by the large demand for Mother's Day flowers and pot plants have greatly stimulated the interest in ultra-early Cymbidiums.

However, before the 1980's, four problems arose with Mother's Day Cymbidium flowers which reduced their popularity in Australia: (1) even the earliest of the standard Cymbidiums bred in the Northern Hemisphere had not been always reliable in their Mother's Day flowering time in Australia; (2) hot Autumns invariably led to bud drop. This was particularly pronounced with plants having *Cym. hookerianum (Cym. grandiflorum)* in their background; (3) flower quality was not high; (4) the few intermediates available were basically suitable only for pot plants not for cut flowers or showbench.

Despite these problems, standard cymbidiums are still possible in April/early May given that this is the typical flowering time of the 2 key early species, *Cym. erythrostylum* and *Cym. tracyanum*. However, one of the problems faced by the early hybridists of Mother's Day standards is that the *Cym. erythrostylum* influence was at diploid level until the advent of Earlybird 'Pacific', a chance tetraploid or more probably a near tetraploid. This tetraploid breakthrough occurred far later than with the Spring flowering hybrids bred from Alexanderi 'Westonbirt'. Early breeding was further complicated by the use of *Cym. tracyanum* which while, providing very desirable characteristics (flower count, stem length, vigour) imparted poor flower keeping qualities. This (plus the diploid status of the earlies) delayed development of the ultra-earlies because hybridisers were forced to cross back on hybrids with better flower keeping qualities. These, of course, flowered later *(Cym. lowianum* has been traditionally regarded as imparting good keeping qualities but this flowers in October/November). *Cym. erythrostylum* has

Left: *Cym.* Melinga x *Cym.* Katydid. **Top right:** *Cym.* Trigo Royale x *Cym.* Winter Paradise. **Bottom right:** *Cym.* Tracey Reddaway 'Inca Gold'.

Left: *Cym.* Matipo 'Pink Globe'.

its own problems with stem strength, stem length and number of flowers. What was needed was the concentration of the desirable genes from these two early species. This occurred in the Earlyana cross (Earlybird x Louisana) where *Cym. erythrostylum* is one grandparent and *Cym. tracyanum* occurs in the lineage of both parents. Earlyana 'Starlight', a polyploid near Mother's Day bloomer, formed the basis of the pioneering ultra-early standard breeding in Australia.

At Cecil Park, the Gulbis' best known Earlyana cross was with Henry Davis with var 'Rosie' supplying an important part of their Mother's Day crop. Other successful Mother's Day clones were (Earlyana x Lirio) 'Mother's Day' and Lyana 'Limelight' (Earlyana x Lucy). All these showed sufficient reliability and freedom from bud drop to justify their commercial propagation on a scale unmatched by other commercial growers in Australia. Again in Sydney, George Haabels hybridised Snow Eagle 'Maylene' (Snowbird x Fred Stewart), a near Mother's Day heavy substance clear white which, despite some problems, has produced many excellent Mother's Day seedlings, especially with the intermediates. George had converted some of his early flowering diploids to tetraploid status, the most important of these was Valley Flame 'Kiandra' which has given us some exciting new seedlings with Trigo Royale 'Sunny'.

In South Australia, Ross and Aileen Gowling pioneered a number of Mother's Day standards with a series of crosses from a chance tetraploid seedling from Stewart's selfing of Earlyana 'Starlight'. This seedling, Earlyana 'Maytime', first flowered in 1966 and was used in several successful crosses. Of these, the Luana cross (with Lunagrad 'Elanora') produced two good Mother's Day clones 'Pink Champagne' and 'Imperial' which were free of bud drop. The Luminya cross (with Sirius 'Aminya') produced one reliable Mother's Day flowerer, Luminya 'Imperial'. Luana 'Imperial' was apparently a chance tetraploid and has been used with, amongst others, Fred Stewart 'Polaris' to produce some nice ultra-early whites and was backcrossed to Earlyana 'Maytime' to give the Minyana cross which gives reliable Mother's Day blooming. Unfortunately a number of these crosses have produced spikes which require careful training, a characteristic which has been largely overcome by using a different line of Earlyana breeding — the Trigo Royales.

So, to sum up the scene in the early 1980s, the better Mother's Day flowering cymbidiums in Australia were developed largely from Earlyana 'Starlight' and Earlyana 'Maytime'. Except for the best clones, the problems commonly encountered were a combination of failure to reliably flower for Mother's Day, some susceptability to bud drop, only fair flower quality and sometimes less than desirable spike habit. Two developments arose to help overcome these problems: Don Wimber's conversion of the intermediate Peter Pan 'Greensleeves' to tetraploid status and the use of various Trigo Royales as parents of ultra-early standards. The arrival of Peter Pan 'Greensleeves' seedlings heralded a new era for quality intermediates before Mother's Day.

The original cross of *(Cym. ensifolium* x Cym. Miretta) was registered as C. Peter Pan by Dos Pueblos in 1957. Peter Pan 'Greensleeves' 2N was a good grower with compact foliage and a very reliable bloomer in late Summer. Very importantly, it has strong resistance to bud drop. The flowers were a nice green with a vivid red lip inherited from Miretta. Peter Pan 'Greensleeves' 2N had one serious problem — it was a reluctant breeder — no doubt due to the fact that a significant number of chromosomes from *Cym. ensifolium* were too dissimilar from the Miretta chromosomes for meiosis to properly occur resulting in nearly complete sterility. Wimber's work on colchicine induced tetraploids successfully created a tetraploid Peter Pan 'Greensleeves' which was popularised first with Jim Burkey's (at Santa Barbara Orchid Estate) very successful Sue cross (Peter Pan x Showgirl) and then with Andy Easton's extensive use of Peter Pan 'Greensleeves' 4N with a range of quality tetraploids. Typically we call (Peter Pan x another cymbidium) a primary Peter Pan hybrid, and a ((Peter Pan x another cymbidium) x (Peter Pan x another cymbidium)) a second generation Peter Pan hybrid. Over the years, we have flowered many tetraploid Peter Pan hybrids and we feel well placed to make the following general observations about these.

1. Even when crossed onto the later Spring flowering tetraploids, most of the primary Peter Pan hybrids have flowered before Mother's Day, some as early as January and February.

2. When crossed onto good keeping cut flower tetraploids, the keeping quality was good. When crossed onto diploids, poorer keeping tetraploids and miniature cymbidiums, keeping quality was disappointing but exceptions occurred in even the poorest keeping crosses. Before breeding for cut flowers, the keeping qualities of any potential parent, whether standard or intermediate, must be tested. This will be one of the key criteria used by the Cymbidium Club of Australia in their forthcoming awards for cut flower cymbidiums. The Cymbidium Club of Australia is undertaking a major expansion and all cymbidium growers, novice through to commer-

cial, would be well advised to check out the activities it is planning.

3. Peter Pan tends to let the colour of the other parent through in its breeding. This has resulted in a very worthwhile percentage of good whites, pinks, yellows, greens, oranges and even near reds, depending upon the other parent being used.

4. Spike habits have been basically straight and strong with good length of spike with the spike habit of the other parent having a definite although limited effect. Thus the Mesa Zia (Peter Pan x Jolity) have superb strong straight racemes, but the Wild Colonial Boy (Peter Pan x Coraki) and Pink Peach (Peter Pan x Rincon) crosses, while being quite acceptable, tend to have shorter spikes than the average.

5. What has been described as Peter Pan ticking in the older leaves has been a problem in certain crosses. This shows up on the underside of older leaves as black markings, being quite unsightly on the oldest foliage. This was a major problem on Coraki, Lady Moxham and Rincon crosses with Peter Pan but often these plants can be detected in community pots and discarded. Most breeders have been careful not to use clones with leaf ticking for second generation crosses with the result that there should be few discards. If this characteristic is the influence of a recessive gene, it is possible a low percentage will occur even when both parents have clean foliage.

6. Sepal staining can be a problem especially in high light conditions. We grow and flower all our ultra-early cymbidiums under 32% shade with the not unexpected result that sunburning will occur. We are always looking to make non-staining crosses and we have found that most of the (Sue 'Moonglow' x Snow Eagle) and (Sue 'Moonglow' x self) to be non-staining even under 32% shade. Of the other crosses, the Sunbreezes (Peter Pan x Cariga) and the Green Glass (Peter Pan x Miretta) were particularly easy to sunburn. Despite this problem with the Sunbreeze, it has been one of the best crosses for us, along with (Sue x Snow Eagle) and (Peter Pan x Fancy Free). Our (Peter Pan x Fancy Free) 'Ivory Tower' is a magnificent tall spiking shapely white combining the strengths of both parents.

7. Shape has been particularly good when shapely tetraploids were used as the other parent. The Sunbreeze, Maureen Grapes (Peter Pan x Sussex Moor) and Wild Colonial Boy crosses were very good, while the Artful Dodger (Peter Pan x Wallara) and Elanora (Peter Pan x Melinga) crosses were, for us, generally poor in terms of shape. The (Snow Eagle x Peter Pan) cross was reasonable but nowhere near as good as the (Sue x Snow Eagle) cross.

8. Plant size and growth have been respectively compact and vigorous, with good size plants quickly formed, often flowering first up with 2 or more spikes.

9. Bud drop has not been a problem, although a few of the primary Peter Pan hybrids which have been crossed with some Winter flowering standards have shown limited susceptability. We have not experienced any significant bud drop on any of our Peter Pan or Trigo Royale hybrids this year, a year noted for its exceptional and sustained hot weather.

10. Flowering has been free with some clones multispiking, especially Mesa Zia, (Sue x Snow Eagle), (Snow Eagle x Peter Pan), (Sue x self), (Peter Pan x Rod Stewart). An exception was Artful Dodger which needed to be a very full pot to flower, like its parent Wallara 'Gold Nugget'.

11. Flower size has ranged from around 70mm to some flowers over 90mm eg (Peter Pan x Sylvan Star), (Peter Pan x Lady Moxham). Flowers under 70mm wide were obtained from Peter Pan crosses onto tetraploid intermediates eg Play Misty (Peter Pan x Olymilum), Autumn Fire (Peter Pan x Chief Joseph) and (Maureen Grapes x Olymilum) — a new albino line for ultra-early miniatures and intermediates. Hybridising the larger flowered Peter Pan hybrids with early flowering standard tetraploids is giving us another avenue for developing ultra-

Right: *Cym.* Trigo Royale 'C1'.

early standards which have reliable flowering times and freedom from bud drop.

Other tetraploid intermediate cymbidium breeding lines are giving us flowers regularly before Mother's Day. An exceptional cross producing pastel but bright pinks ideally suited for cut flowers has been (Snow Eagle x Minneken) 4N. This cross regularly starts flowering before the first week in May producing multibulb plants quickly (a *Cym. floribundum* characteristic) with tall straight stems, again with a percentage multispiking.

Another very successful parent that we have used is the tetraploid Katydid 'Veridian'. When crossed onto Melinga 'Golden Surprise' 4N, the result has been an exceptionally fine cross of Mother's Day yellow and some green pure colour intermediates on good spikes free from bud drop. The first spikes are reliably out in the last week in April. Snow Eagle 'Maylene' crossed with the Katydid produced flowers from cream to pale orange most with good upright stems. Selfing of these will yield some very interesting white pure colours, although with these selfings we can only expect 1 in 16 to be albinos and of these, only a percentage will be white! Katydid 'Veridian' 4N is an excellent grower and when crossed onto standard tetraploids quickly forms multibulb intermediates which regularly spike 3 up on a first flowering. Many of the earlier flowering tetraploid *Cym. floribundum* hybrids, when crossed onto a near Mother's Day flowering tetraploid standard, will give a worthwhile percentage for Mother's Day. These, plus some other ultra-early flowering intermediates including 2 Pendragon clones, will be examined in a later article.

Far more exciting than the primary Peter Pan hybrids themselves have been the crosses bred from these primary hybrids: our (Sue 'Moonglow' x Snow Eagle) have been magnificent producing tall multispiking non-staining whites and some creams. The best of these for shape is 'Perfection' with its lovely concolour lip and up to 16 creamy white blooms. The (Sue 'Moonglow' x Trigo Royale 'Sunny') and (Sue 'Waitohu' x Trigo Royale 'Sunny') produce striking whites, creams and yellows on tall straight spikes. Our cross of Maureen Grapes 'Natalie' with Wild Colonial Boy 'Peter' started flowering last year, the best being 'Alexandra' a magnificent very shapely green with a vivid red lip. (Sue 'Moonglow' x self) resulted in a high percentage of intense white flowers. (Sue 'Moonglow' x Wallacia 'Burnt Orange' 4N) were attractive bright oranges with striking red lips — some with reasonably good shape. Several crosses with Mini Goddess (Peter Pan x Sleeping Dream) have resulted in appealing oranges and salmons with excellent multi-spiking characteristics. (Sue x Rolling Stone) are giving tough 65mm deep pink flowers on strong upright racemes. All of the above flower before Mother's Day.

While some second generation Peter Pan hybrids (especially from Sue) have been flowering for quite a few years, most are now just starting to flower in quantity. As such, it is a little too early to make generalised comments, although even now some very interesting and unexpected results seem to be occurring. Certainly developments in quality are occurring very rapidly with the percentage success being vastly superior to primary Peter Pan hybrids. Colours are intensified and clearer with far less sun staining. Spikes are still very good. Lip markings have become very variable ranging from concolours to the normal red Peter Pan labellum, as well as all degrees of red markings.

Since the advent of Peter Pan, the use of Trigo Royale has pioneered new standards of excellence in the Mother's Day standards. After discussing the problem concerning Trigo Royale parentage with Andy Easton, his assessment is that the most likely parentage of Trigo Royale is not (October x Rosinante) but rather (October 'Comet' x Earlyana). The cross was made by Clayton Smith in California with pollen from an unnamed, probably triplod, Earlyana seedling from Ed Cardoza. October 'Comet' carried up to 40 creamy off-

Left: (*Cym.* Peter Pan x *Cym.* Fancy Free) 'Ivory Tower'.

Right: *Cym.* Sue x *Cym.* Snoweagle 'Perfection'. **Below right:** (*Cym.* Melinga x *Cym.* Katydid).

white flowers on a good tall spike. This no doubt accounts for the superior spikes on the best Trigo Royales and the exceptional spikes which have been produced on some Trigo Royale progeny when crossed onto some standard tetraploids. While several Trigo Royale clones have been used, the results from 'Sunny' and as of late 'C1' have been outstanding and we are now concentrating on these two, although 'Ridgeway', 'Offs White' and 'Offs Cream' have produced some excellent results. Trigo Royale 'C1' was of sufficient high quality to have been mericloned by John and Melita Gulbis for large scale commercial Mother's Day white cut flowes. Various Trigo Royales have been used with many of the same 4N standards as were used with Peter Pan. Once again the (Trigo Royale x Cariga) have been very good, (Trigo Royale x Fanfare) have been good although foliage size is a problem, (Trigo Royale x Thanksgiving) having been exceptionally good. (Trigo Royale x Coraki) has produced a number of dramatic yellows in the Tracey Reddaway cross. From Alvin Bryant's cross, we flowered a magnificent (Trigo Royale x Winter Paradise) — a near concolour white with vertical spikes of 20+ flowers, multi-spiking with about one quarter open for Mother's Day. The (Trigo Royale x Poetic Fair), (Trigo Royale x Cronulla), (Trigo Royale x Via Mar Tranquilla), (Trigo Royale x Angelica) and (Trigo Royale x Valley Flame) have given a percentage of fine Mother's Day flowers. For colours we have high expectations for our (Trigo Royale x Red Beauty 4N) crosses, some of which are flowering first up this year 2 years ex flask with up to 3 spikes per plant for Mother's Day. Of the pinks, a very superior cross for us has been Matipo (Rincon x Mem. Ken Blackman), the best of which is 'Pink Globe' which multiple spikes and is out for Mother's Day most years. An excellent cross should be (Matipo 'Pink Globe' x Trigo Royale 'C1'). What we are doing is either intercrossing the earliest of these hybrids or back crossing onto Trigo Royale to guarantee a good percentage of genuine Mother's Day standards with good resistance to bud drop (see later discussion).

For improving the reliability of flowering time for Mother's Day cymbidiums, it is important to recognise several different characteristics pertaining to spike development. Various species show their spikes at varying times and these will develop at

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Right: (*Cym.* Snow Eagle x *Cym.* Minneken).

varying rates depending upon the species involved. Hybrids from Peter Pan show their spikes early and these spikes develop rapidly to flower opening even under cooler night conditions. Other cultivars show spikes at similar times but these spikes develop slowly. For reliable Mother's Day flowering we need to combine early spike initiation and rapid spike development. A further element that is very critical for us at our colder location (we are consistently 2 weeks later than the coastal areas in Sydney) is the need to ensure that spike development is not too adversely affected by cooler night temperatures (we can have temperatures of down to 3 degrees C in early May). During such cold night temperatures some cultivars can remain in a suspended stage of development even with buds on the verge of opening.

In the Trigo Royales, bud drop has not been a significant problem but it may well return in the very desirable lines of ((Trigo Royale x Early Standard Tetrapoloid) x (Trigo Royale x Early Standard Tetraploid)) especially where both the Early Standard Tetraploids have a significant input of *Cym. hookerianum* in their background. However one needs to be very careful with the examination of the species composition of hybrids. The whole purpose of intelligent hybridising is to select for desirable genes and to eliminate undesirable characteristics. Thus bud retention under hot weather conditions can be selected for and assuming no problems with gene linkage, with a limited number of genes controlling this characteristic and full genetic crossing over occurring, bud drop could theroretically be eliminated in 2 generations even if it were a dominant characteristic. With careful selection of the Early Standard Tetraploid mentioned above (to ensure characteristics such as carrying quality, freedom from petal edge bruising, shape, limited exposure to *Cym. hookerianum* and desirable foliage characteristics are present), genetic recombination in the ((Trigo Royale x Early Standard Tetraploid) x (Trigo Royale x Early Standard Tetraploid)) will ensure high quality, problem free ultra-early standards. But remember that recombination works with all characteristics, good and bad, so that a percentage of seedlings will exhibit all the undesirable characteristics of the grandparents.

In conclusion, we have been privileged to participate in many of the exciting developments which have occurred in ultra-early cymbidiums. We have seen dramatic changes with the advent of primary and now, second generation Peter Pan hybrids with their complete range of colours and showbench shapes. These developments have been very nicely complemented by the pure colour Katydid 'Veridian' hybrids and the aesthetically desirable Minneken pinks. At the same time, the real value of the Trigo Royales as parents of the ultra-early standards is just starting to be utilised. In addition, the combination of carefully selected second generation Peter Pan and Trigo Royale lines will surely enable us to achieve reliable Mother's Day cut flowers and pot plants of showbench quality without the worry of bud drop.

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Spatulate Dendrobiums in Townsville Gardens

By R. Smythe MSc, Photographs by the Author

Townsville being in the tropics has native orchids with close ties to those which abound in New Guinea. Once the two land masses were joined so the orchids have common ancestries. Every now and then a new species comes out of pockets of northern mountainous rainforest and these generally turn out to have relatives in New Guinea. The most abundant native orchids in the Townsville region are two spatulate dendrobes, namely *Dendrobium discolor* and *D. canaliculatum.*

The popular name for this group is the antelope orchids. The antelope appearance of *D. antennatum* was I believe the orchid responsible for this naming.

Over the years northern growers have had contacts with New Guinea Orchidophiles, Andree Miller, Min Korsman and the late Marj Purnell are names that spring to mind. One of Marj's crosses (*D.* Kerry Lewis x *D.* Solak). We are therefore in no way short of species up here, many existing in collections before they were described botanically. Many of the forms of *D. helix* existed under colourful names which either related to the colour or the location in which they were collected e.g. 'Pomio Brown', 'Mushroom Pink' and 'Talasea Lime Yellow'. *D.* 'Sepik Blue', 'May River Red' are others which were in collections before they became known as *D. lasianthera.* I would say *D.* 'Tangerine' was around in Townsville collections for more than ten years before it became classified as *D. tangerinum.* The legacy of this is that there is some confusion with early crosses as not only were *D. tangerinum* and *D. strepsiceros* confused botanically but some how growers confused a different but related species *D. streblocerus.* Arguments still rage, eg *D.* Autumn Lace, as to what the real parents are for some established crosses. The ad hoc method used with botanical name changes and acceptance there of will always generate such problems. There needs to be a world body set up to rule on acceptance or rejection of orchid name changes. Could I diverge just for a moment to show how confusing the system is. In your orchid collection you could have an orchid correctly

Top Right: Composite photograph of a collection of spatulate dendrobiums. **Right:** *D. tangerinum* leaning towards the end of its flowering season. The flower has lightened considerably. One can judge better how it got its name by looking at the flower (C2C) in the composite photograph.

labelled as *Phalaenopsis psilantha* or *P. modesta* or *P. amboinensis* or *P. venosa* or *Polychilos venosa.* All these would be botanically correct at the time the label was inserted yet they could all be botanically the same plant yet you could have another plant correctly carrying one of these names but this one is botanically different to all the others. Impossible you say. Try reading the Orchid Digest, July-August 1983 p124-128 where *P. venosa* was botanically described and you will see it is even more confusing than this.

Back to the subject: *D. canaliculatum* (tea tree or onion orchid) is copiously abundant here and has been found from about Bundaberg and possibly even further south of the islands up to New Guinea and across to Broome. Its abundancy should make this orchid what the crocodile is to the dinosaurs, the last survivor in the case of a tragedy. (From the photographs a little of the variation in this species can be seen.) It is extremely variable. Lip colour from nil through partial to nearly complete, lip shape from nearly straight like *D. johannis* to bent nearly 90° petal shape from long and twisted to short and rounded and nearly no twist. Tepal colours from lime green to chocolate. I have heard but never had confirmed that blues have been found in the Mt Isa and in the Petford areas. Colouration can be full length or only top half of tepals. I have seen very open well displayed forms in the Thursday Island group yet small nearly closed forms from the Darwin area. There are great populations of variants.

D. discolor is a different story altogether. In this area and where ever I have seen them they are very similar and usually called the 'Brown Orchid' or the 'Golden Orchid'. This statement appears to be belied when you visit collections in Townsville.

The variations are generally a result of a clonal variation being discovered, pampered and divided by a collector with a discerning eye. Some clones carry names eg. 'Beautiful Brunette', 'Walsh's Red', 'Jones's Brown'. Probably Ken McPherson could rattle off a dozen of his own.

D. discolor var *broomfieldii* is one of the most beautiful spatulate dendrobes in the world. This is supported by world opinion as a clone I believe grown by Slim Warner has won a world championship. I have

Top: Mr Peter Souris is very proud of these two three year old plants. *D. discolor* var *broomfieldii* and *D. helex* 'Mushroom Pink'. **Right:** *D. canaliculatum.* An unusual form with long twisted segments.

observed a lot of near 'broomfieldii' plants in the wild. The colour imperfections appear at different locations. I think several locii and maybe more than two chromosomes could be responsible for colour in this plant. The unusual fading from brown on opening through to various combinations of whites and yellows on ageing makes deductions a bit subjective. This fading actually enhances the beauty of a lot of these spatulate Dendrobiums which open dark. Some lovely hues and contrasts appear especially with *D. tangerinum* and its progeny. Don't be disappointed when the flower just opens.

I have been told by Ken McPherson who has studied *D. discolor* var *broomfieldii* for nearly a life-time and a very long one at that, that there is only one true *D. discolor* var *broomfieldii* and he calls his form 'robusta'. This one he says selfs giving all yellow to yellow greens the others revert to the normal *D. discolor.*

Subject to the limitation I mentioned above I can only explain this by coining a term 'killer colour gene'. If such a gene exists I am equating it to the 'killer gene' which literally kills

Top: *D. canaliculatum* — a dark form. **Below:** *D. canaliculatum* var *foelschei.*

animals and explains the absence of expected genotypes from animal populations.

What I am suggesting is that there are 'killer colour genes' associated with the many colour areas. For the 'broomfieldii' to occur all the locii would have to have 'killer colour genes' so the probability of all occurring at once is quite low. If Ken's 'robusta' was homozygous with respect to these genes and other broomfieldiis were heterozygous to some degree assuming, I am only theorizing, the 'killer colour gene' to be dominant Ken's plant would give all 'broomfieldiis' while the others would give degrees of colour and infrequently a *D. discolor* var *broomfieldii.* Some poor student can now do a PhD proving me wrong. When spatulate Dendrobiums were first introduced to Townsville they were very popular. The first specialist collector I came in contact with was Mrs Joan Abraham. Her bushhouse full of these fascinating flowers with various colours and interesting twisted shapes were attracting much attention.

A couple of years on things changed as the flower spikes had reached the

Top: *D. canaliculatum* — the common coastal form. **Below:** A spatulate hybrid.

roof and later again the plants had reached the mesh with flowers coming outside the shade house. Interest dropped as the plants were just too big. Growers moved them outdoors and strapped them to trees. Almost every garden in Townsville sports a spatulate *Dendrobium* somewhere on a tree. In non orchid circles commonly they are referred to as the 'tree orchid'.

The photo depicting *D. helex* and *D. discolor* var *broomfieldii* shows plants belonging to Mr P. Souris. These plants are only three years old having been grown from aerials. One has already been banished outdoors. Ken McPherson from the Proserpine area overcame the problem by introducing *D. canaliculatum* into the breeding. This did for the spatulate Dendrobiums what the *Ascocentrum* has done for the *Vanda*. So, Ken's *D.* Gloucester Sands, I believe, started the world wide trend towards smaller spatulate Dendrobiums.

From what I have seen, *D. canaliculatum* has a very strong influence on plant morphology. An exception is with *D. agrostophyllum* is minimal where the cross looks like a fatter version of the latter species. With the 'tea tree orchid' crosses the flower sizes range from intermediate up to nearly the size of the larger flowered parents. Spike size and flower number have been a spectacular success. Currently a line of breeding is being carried on with an even smaller species *D. carronii*. This is producing miniatures and some interesting reds.

Other growers including Mr Keith Otto have taken an interest in breeding browns for example *D. discolor* var *broomfieldii. x (D. gouldii* x *D. tangerinum).*

Blues are also very much in vogue, I have not followed the breeding for these but I know of bluish forms of *D. lineale, D. gouldii* and *D. nindii.*

D. lineale x *D. lasianthera* can have blue tonings but much superior blues can be found in specialist collections like that of Ken Norman's in Geru. Unfortunately they were not in flower at the time photographs were taken for this article. The photograph of the last mentioned cross brings me to the title of this article. It shows the ideal way of growing these plants outdoors in the tropics. In brief, keep the roots cool, the leaves in the sun and water every night. This plant has the roots in the shade of a shrub and growing into the fern peat. The leaves are obviously well exposed. Even though these plants come from the tropics they can't handle hot dry conditions and I would assume they would not take kindly to the cold. Another way I have found suitable is, firstly find a not too large specimen tree with permanent bark. Determine the side receiving the hottest sun, usually the north/west side. Lie your plant, roots protected with a covering, with stocking on the opposite side (S.E.). The leaves will grow round the tree and flower towards the sun with the roots remaining in the coolest area.

My interest with spatulate dendrobiums is mainly with decorating the garden and not with breeding, unlike my interest in *Phalaenopsis,* so I will not comment on breeding except that crosses are very easily made. ■

Correspondence
C/- Chemistry Dept
James Cook University
Douglas, Qld 4811

Orchid Conference in Thailand

Chiang Mai, the enchanting handicraft and cultural centre of northern Thailand, will host the Fourth Asia Pacific Orchid conference between January 21 and 26 next year.

Orchid growers and enthusiasts from Australia, the Pacific and many parts of Asia are expected to attend.

Thai Airways International can arrange visits to the conference with flights from Sydney, Melbourne, Perth and Brisbane and, through its own tour operation Royal Orchid Holidays, a range of holidays or stopovers in all parts of Thailand.

Chiang Mai is a 65-minute jet flight north of Bangkok. Thai International, which has a Thai orchid as its corporate symbol, has services to 24 destinations within Thailand, including a direct flight from Chiang Mai to the island paradise of Phuket in the south.

Each year Thailand exports orchids worth more than $80 million to over 20 countries around the world. Most are grown in the hundreds of orchid farms in the fertile Chiang Mai district.

Chiang Mai is the natural habitat of forest orchids and home of some of the best known species of orchids in Thailand that belong mostly to the Vanda or Dendrobium families, although the number of varying species available in Chiang Mai run into the thousands.

The conference, which will include exhibitions, seminars and social gatherings, has been timed to co-incide with the height of the season in Thailand when orchids are in full bloom.

Further information is available from State branches of the Australian Orchid Council or from the conference secretariat at P.O. Box 100, Chiang Mai 50000, Thailand. (FAX: 66 053 232195). ■

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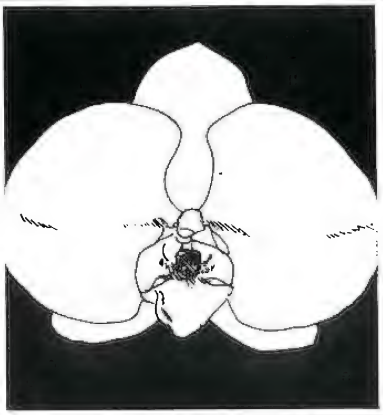

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The A.O.F. Orchid Species Seed Bank was created because it was believed to be one of the more practical avenues of conservation and every effort should be explored that will encourage the commercial orchid nurseries to raise some orchid species from seed, and ideally, for that Nursery to promote their sales as "Nursery raised species".

Being practical, the commercial grower would be very interested in those species which may be termed 'very desirable' if that seed is available.

The main purpose of this preamble, is to emphasise that there is an urgent need for the seed of these desirable species to the amateur, as well as the commercial grower.

The AOF Orchid Species Seed Bank seeks your co-operation to encourage your friends to 'self' a few of these flowers as they come into flower. It is appreciated that the seed cannot be produced overnight. Many of the epiphytes will take 9 to 10 months to mature, and while many talk nonsense about conservation, here is a chance for you to do something really positive from the enormous number of very attractive species that have been imported into Australia in the past decades.

A number of Members of the AOF have been regularly supplying seed, both native and exotic, to the AOF Orchid Species Seed Bank to their credit, making a creditable good list of the seed available, and this segment of the Foundation is attracting more and more attention from overseas orchid enthusiasts which helps to make our efforts more encouraging.

It is the desire of the Foundation to enlarge this list of seed being available, hence this appeal to YOU personally. Dry seed, rather than green pods is being sought to enlarge the number of species available. Wrap seed in writing paper to be slipped into a small envelope. DO NOT USE PLASTIC WRAPPING. Let is repeat, that while seed from you will be most acceptable, it will be more wonderful if you can encourage your friends to join our contribution of **practical conservation** of the orchid species.

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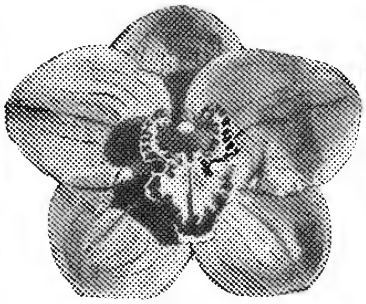

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Fifty-five Years Ago

The first issue of the *Australian Orchid Review* is designated as The Official Organ of the Orchid Society of New South Wales. Although the A.O.R. was not adopted as the Official Organ by the Queensland Orchid Society until March 1937, or by the Victorian Orchid Club until March 1945, the inside rear cover carries details of the Victorian and Queensland Orchid Societies, and articles are included written by a member of each Society. Articles are solicited also from "members of any other similar Society".

The Officers of the Orchid Society of New South Wales are listed on the inside front cover:

President: Judge H.F. Markell
Vice-Presidents: Dr C.A. Jaede and Rev. H.M.R. Rupp
Secretary: T.H. James
Treasurer: L.F. Hawley
Committee: E.A. Hamilton and S.C. James
Journal Committee: G.H. Slade, Editor; R.M. Stewart, Sub-Editor, and C.A. Gosper.

An informative history of the Society by the Treasurer is included in the first issue. This article describes the initial meetings of a few enthusiasts early in 1931, which resulted in meetings and inspections of collections on a regular basis. As numbers grew it became obvious that a Society was needed and moves in that direction gave birth to the Orchid Society of N.S.W. on 7th August 1934 when the first officers were elected.

Letters from fellow orchid lovers wishing success on occasion of the first issue were received as follows:

from Dr R.S. Rogers of the University of Adelaide
from Sir Jeremiah Colman, Chairman of the Orchid Committee of the Royal Horticultural Society
from John Laycock, President of the Malayan Orchid Society
from D.E. Soysa, Secretary, Orchid Circle of Ceylon

Each of these letters is interesting in its own way. Dr Rogers writes charmingly of the fascination of orchids, Sir Jeremiah shows remarkable prophecy in suggesting that the development of air travel may permit Australian orchid flowers to be presented at overseas shows, Mr Laycock gives a glimpse of growing Australian natives in Malaya, and Dr Soysa urges action to conserve our native species.

A matter that is still of concern today is the use of correct (i.e. botanical) names for orchids. E.J. Beard, President of the Queensland Orchid Society, wrote an eloquent plea to avoid the use of common names. It is surprising that, even now, people who can roll *Chrysanthemum* off their tongue with no effect baulk at *Dendrobium* or *Paphiopedilum*.

A list of some of the orchids recommended to be grown may be of interest: *Cattleya dowiana, C. gigas, C. labiata, C. mendelii, C. mossiae, C. trianae; Laelia anceps; Brassovola digbyana; Sophronitis grandiflora, S. lowii; Cymbidium devonianum, C. elegans; Dendrobium infundibulum, D. nobile, D. thyrsiflorum.*

The words "Orchid Review" on the cover are in a most eye-catching script. Tucked away in a curlicue at the bottom lefthand corner are the initials "C.T.G.", presumably those of the artist or designer. Can any reader enlighten me as the identity of this person?

Some of the advertisements are intriguing to today's readers. For example, would you like a bag of Chilean nitrate, or to have your fern tubs and casks made to order? What about this: teak baskets copper wired throughout 10" (25cm) @ 22/- ($2.20) per dozen! ■

Len Lawler
P.O. Box 58
Atherton 4883

If you would like to contribute to the series, send your articles to the editor, David Wallace, Australian Orchid Review, 14 McGill Street, Lewisham, NSW 2049. Please ensure that any photographs are marked clearly with the author's name and address.

All articles published in this series will receive a complimentary 12 months subscription to the AOR.

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Orchids — "a sure winner", PNG farmers told

Papua New Guineans have been urged to grow orchids as a cash crop. Speaking at a one-day orchid seminar in Port Moresby, Mr Joseph Hafmans, acting secretary of the Trade and Industry Department, said he believed orchids grown to order and exported from PNG were a sure winner. PNG, he said, was blessed with an astounding number of orchid species growing in all climatic zones from the seashores to the highest mountains. In 1988, Taiwan exported orchids worth $US55 million, Thailand $US29 million and Singapore $US20 million, he said. Vice-chairman of the Japanese Cut Flower Importers' Association and president of the Kasuura Shoyeen Orchid Company, Mr Takayoshi Katsuura, said PNG had the best climate and its orchids grew naturally. Japan grew its own orchids but the demand for cut flowers was so high that, each year, it had to import orchids, spending millions of dollars. ■

Reprinted from "The South Sea Digest"

VALE
Jim Rentoul

I was deeply shocked when I received a telephone call from Jim Rentoul's son, Aleck, informing me of the passing of his father in late March.

I first became acquainted with Jim over forty years ago on a visit to orchid growers in Victoria. He grew a mixed collection of orchids at his home, 43 Denham Avenue, Glen Iris, Victoria. His family was young and I was made very welcome by his late wife Madge. He was a devoted family man and was always accompanied by his wife wherever he travelled. A journalist by profession, on his retirement he went to live on a property in Coral Avenue, Somers, Victoria, where he grew most of his collection on trees. On the death of his wife he moved to a property at Brady Street, Dandenong, Victoria.

For many years he wrote articles on orchids for a monthly publication "Your Garden" and his articles were eagerly read by people all over Australia. He published a number of books which proved best sellers. Always in demand as a lecturer, he attended Orchid Conferences and never missed the Tropical Queensland Orchid Conferences since the Innisfail Conference.

His gentlemanly manner endeared him to all and will be sadly missed by all who knew him, especially my wife and self, and I myself am glad he passed my way.

To his family we all express our deepest sympathy. ■

Frank Slattery

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New Orchid Hybrids

NOVEMBER 1990 REGISTRATIONS

Supplied by The Royal Horticultural Society as International Registration Authority for Orchid Hybrids

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NAME	PARENTAGE	REGISTERED BY
ARANDA		
" Gloria	*Arach.* Maggie Oei x *V.* A'Pura	How Yee Peng
" Suntan	*Aranda* Un Hon Shing x *V.* Mabelmae Kamahele	How Yee Peng
" Yee Peng Dawn	*Aranda* How Yee Peng x *V.* Dawn Nishimura	How Yee Peng
ASCOCENDA		
" Diane Vickery	*Ascda.* Cholburi x *Asctm. miniatum*	R. Perreira
" Silver Jubilee	*V.* Emma van Deventer x *Ascda.* Hilo Rose	How Yee Peng
" Southern Gold	*Ascda.* Chaisiri x *Ascda.* Carrot Stick	G. Atkins
BRASSIDIUM		
" Shooting Star	*Brsdm.* Gilded Urchin x *Brs.* Edvah Loo	Rod McLellan's
BRASSOCATTLEYA		
" Hawaiian Bells	*C.* Princess Bells x *Bc.* Pink Debutante	Kodama's
BRASSOLAELIOCATTLEYA		
" Ann Cleo	*Lc.* Wayndora x *Blc.* Toshie Aoki	A. C. Boteilho (Orch. Center)
" Hawaiian Bay	*Lc.* Fabiesk x *Blc.* Normans Bay	Kodama's
" Hawaiian Beachcomber	*Blc.* Gold Country x *Lc.* Hawaiian Fantasy	Kodama's
" Hawaiian Heirloom	*Blc.* Toshie Aoki x *Blc.* Destiny	Kodama's
" Hawaiian Honoree	*Blc.* Dinh Thuy Yen x *Blc.* Toshie Aoki	Kodama's
" Hawaiian Native	*Blc.* Fortune x *Lc.* Bonanza	Kodama's
" Hawaiian Peachy	*Blc.* Dinh Thuy Yen x *Blc.* Waikiki Sunset	Kodama's
" Hawaiian Rusty	*Blc.* Toshie Aoki x *C.* Penny Kuroda	Kodama's
" Little Frankie	*Blc.* Green Giant x *C.* Eldow	J. Grezaffi
" Pearl Queen	*Blc.* Memoria Helen Brown x *C. violacea*	Dogashima
CATTLEYA		
" Love Chance	*C.* Landate x *C. loddigesii*	Dogashima
" Stardust Memory	*C.* Wings of Red x *C.* Angelwalker	Dogashima
" White Bridal	*C.* Angelwalker x *C.* Candy Tuft	Dogashima (Tomeitoyokawa's)
CYCNODES		
" Key Lime Pie	*Cyc. haagii* x *Morm. buccinator*	G. Monnier
CYMBIDIUM		
" Autumn Jewel	Celadon x Peter Pan	Ferndale (C. Halls)
" Elizabeth Terwilliger	Cariga x Great Day	Rod McLellan's
" Ferndale Ice	Via Del Playa x Baltic Snow	Ferndale (Easton)
" Laura Ellen	Excalibur x Pacific Rose	L. Woolnough
" Mountain Maid	Ivan Yelavich x Huckleberry Mountain	Ferndale (Easton)
" Red Carlson	Chironla x Tapestry	Rod McLellan's (Jim Crossley)
" Tropic Storm	Doctor Baker x Tropic Night	Ferndale (Easton)
" Western Beauty	James Wattie x Red Beauty	Ferndale (Easton)
DENDROBIUM		
" Arabian Nighte	Muramusume x Fantasia	J. Yamamoto
" Benkie	Nara x Muramusume	J. Yamamoto
" Carolina	Sailor Boy x White Rabbit	J. Yamamoto
" Christina	Hanafubuki x Everest	J. Yamamoto
" December King	Mercury x *aureum*	J. Yamamoto
" Eilen Beauty	Benchamin x White Christmas	J. Yamamoto
" Fancy Cake	Wave King x Meiho	J. Yamamoto
" Fancy Dress	Ginrei x Seigyoku	J. Yamamoto
" Golden Pagoda	Yellow Sapphire x Pittero Gold	J. Yamamoto
" Golden Tower	Liberty Angel x Golden Chappie	J. Yamamoto

NAME	PARENTAGE	REGISTERED BY
DENDROBIUM (cont.)		
" Great Century	Upin Red x Mercury	J. Yamamoto
" Happy Girl	Oberon x Snow Boy	J. Yamamoto
" Honey Moon	Sawady x Everest	J. Yamamoto
" Hula Dance	Lovely Virgin x Santana	J. Yamamoto
" Isabella	Fukuhama x Yellow Ribbon	J. Yamamoto
" Jolly King	Jolly Carnival x Wave King	J. Yamamoto
" Julian	Damsel x Pittero Gold	J. Yamamoto
" Lady Killer	Jet Fire x Child Heart	J. Yamamoto
" Lilyan	Joyful Heart x Hijiri	J. Yamamoto
" Love Fair	Carnival Queen x Lovely Pinky	J. Yamamoto
" Lucky Girl	Romance x Happy Toy	J. Yamamoto
" Memoria John Allison	Bobby Mesina x *canaliculatum*	Allison's (R. Yahiro)
" Moony Night	Golden Feather x Fukuhama	J. Yamamoto
" National Parks	Tan Nam Keow x Merritt Island	S'pore Bot. Gdns.
" Nice Dream	Hijiri x White Christmas	J. Yamamoto
" Nukara Gold	Tully x Tweed	K. Harris
" Pink Fantasia	Pink Paradise x Fantasia	J. Yamamoto
" Pink Lotus	Sailor Boy x Child Heart	J. Yamamoto
" Pink Romance	Cute Angel x Seigyoku	J. Yamamoto
" Planet	Sapphire Queen x Chandora	J. Yamamoto
" Polka	Papiyon x Orange Gem	J. Yamamoto
" Ponpan	Hagoromo x Kasyoku	J. Yamamoto
" Ranpan	Fantasia x Seven Star	J. Yamamoto
" Red Emperor	New Comet x Benikujyaku	J. Yamamoto
" Romina	Lovely Virgin x Utopia	J. Yamamoto
" Royal Gold	Orange Jelly x Yellow Ribbon	J. Yamamoto
" Saiton	Oberon x *hildebrandii*	J. Yamamoto
" Senhime	Rolly Pop x Princess Yellow	J. Yamamoto
" Snow Berries	White Crystal x Snowfire	Kodama's (G. Tsumoto)
" Spring Sunset	Arden x Oriental Sunset	J. Yamamoto
" Super White	Seigyoku x White Pony	J. Yamamoto
" Utones	Malones x Utohime	J. Yamamoto
" Utosia	Fantasia x Utopia	J. Yamamoto
" White Lekku	Lekku x White Christmas	J. Yamamoto
" Yukihime	Picola x Forty Niner	J. Yamamoto
DORITAENOPSIS		
" Abenice	*Dtps.* Pretty Nice x *Phal.* Abendrot	Breckinridge's
" Amazing Beauty	*Phal.* Spirit House x *Dtps.* Zuma White Puff	Suwada Orch.
" Am Happy	*Dtps.* Violet Happy x *Phal. amboinensis*	Paphanatics (J. Ewing)
" Delhi	*Phal.* Spitzberg x *Dtps.* Zuma White Puff	Zuma Canyon (R. Brown)
" Fargo	*Phal.* Clown Festival x *Dtps.* Alice Loeb	Zuma Canyon
" Fujii Ruby	*Dtps.* Vivian Moorehead x *Phal.* Shigeharu Fujii	Breckinridge's
" Mattie Pratt	*Phal.* Hunabu Supreme x *Dtps.* Orglade's Puff	Laurel Orch.
" Percy's Ruby	*Dtps.* Vivian Moorehead x *Phal.* Percy Porter	Breckinridge's
" Prairie Heart	*Phal.* Prairie Du Sac x *Dtps.* Thankful Heart	Breckinridge's
" Ventnor	*Dtps.* George Moler x *Phal. venosa*	Paphanatics (J. Ewing)
" Violet Happy	*Dtps.* Happy Day x *Phal. violacea*	Paphanatics (J. H. Miller)
EPICATTLEYA		
" June Simpson	*Epi. ciliare* x *C. mossiae*	P. D. Simpson
LAELIOCATTLEYA		
" Dot Smitherman	*Lc.* Canhamiana x *Lc.* Excellency	J. Grezaffi
" Festival Queen	*C.* Old Whitey x *Lc.* Nippon	Dogashima
" Hallo Wedding	*Lc.* Kaguyama x *Lc.* Stephen Oliver Fouraker	Dogashima
" Happy Spring	*Lc.* Commander x *Lc.* Spring Tradition	Suwada Orch.
" Hawaiian Excitement	*C.* Elizabeth Carison x *Lc.* Peggy Huffman	Kodama's
" Lass	*C.* Cherry Chip x *Lc.* Commander	Suwada Orch.
" Mint Girl	*Lc.* Dubescens x *C. intermedia*	Suwada Orch.
" Winter Gift	*Lc.* Commander x *C.* Michael Collins	Suwada Orch.
LEWISARA		
" Blue Moon	*Lwsra.* Chittivan x *V.* Dawn Nishimura	How Yee Peng
**MACEKARA (Maka.)*		
" Orange Scorpion	*Thra.* Taylor x *Phal.* Boediardjo	Mrs Macek (R. Ciesinski)

NAME	PARENTAGE	REGISTERED BY
MASDEVALLIA		
" Peach Fuzz	*urosalpinx x veitchiana*	O. Neils (O/U)
MILTASSIA		
" Satin Doll	*Brs.* Edvah Loo x *Milt. spectabilis*	Rod McLellan's
MILTONIA		
" Dennis Kleinbach	Sean Kane x Memoria Ida Seigel	Baker & Ch.
MOKARA		
" Bellcup Pink	*Aranda* How Yee Peng x *Ascda.* Yip Sum Wah	How Yee Peng
ODONTIODA		
" Bells Court	*Oda.* Ebury Court x *Oda.* Bellcade	R. Dugger
" Jerry Rich	*Oda.* Dalmar x *Oda.* Philomel	R. Dugger
" Manitoba Gem	*Oda.* Stirmar x *Oda.* Ebury Court	R. Dugger
" Memoria Ray Buckman	*Oda.* Lingway x *Oda.* Ray Buckman	R. Dugger
" Page Marie	*Oda.* Aloette x *Oda.* Marie Noel	R. Dugger
" Perry Again	*Oda.* Red Rum x *Odm.* Stroperry	R. Dugger
" Planet Mars	*Oda.* Keystern x *Oda.* Flaming Planet	R. Dugger
" Start Fast	*Oda.* New Start x *Oda.* Red Rum	R. Dugger
" Winner Again	*Odm.* Perrymanda x *Oda.* Minel	R. Dugger
ODONTOCIDIUM		
" Page Mexico	*Odcdm.* Zacatepic x *Odm.* Goldstone	R. Dugger
" Page Solana	*Odcdm.* Solana x *Odm.* Goldstone	R. Dugger
ODONTOGLOSSUM		
" Maynard Osborn	Quisto x Hyrastro	R. Dugger
ONCIDIUM		
" Dainty Doll	*divaricatum*† x *harrisonianum*	Rod McLellan's
" Magic Touch	Passionata Red x *henekenii*	R. Perreira
" Memoria Syaikhah Alkaff	Saint Francis x Maui Gold	A. Syarif
" Perreira's Choice	Taffy x Robert Perreira	R. Perreira
" Siskadomo	Letty Lim x *lanceanum*	Y. Alsagoff
PAPHIOPEDILUM		
" Cadelyn	Jocelyn x Caddiana	Suwada Orch.
" Charlesvale	Redvale x *charlesworthii*	Paphanatics (O/U)
" Christmas Candy	Yumedono x Jocelyn	Suwada Orch.
" Galamoon	Green Moon x Tree of Galaxy	Suwada Orch.
" Highland Blush	Barbourn x Highland Quest	J. McCubbin (A. J. Bell)
" Highland Prince	Paeony x County Fair	J. McCubbin (A. J. Bell)
" Highland Quest	Goldstar x W. N. Evans	J. McCubbin (O/U)
" Mahogany Stripe	Harry Stage x Sioux	Suwada Orch.
" Richard Charles	*fairieanum* x Red Shield	Rod McLellan's
" Seward Park	La Honda x Greenvale	Baker & Ch.
" Starr Master	Goultenianum x *mastersianum*	Lester Ng
" Starr Maud	Faire-Maud x Maudiae	Lester Ng
" Starr Song	Iona x Vintner's Treasure	Lester Ng
" Stone Addict	*stonei* x *adductum*	F. Booth
" Sukhakumoon	*sukhakulii* x Green Moon	Suwada Orch.
" Swedish God	King of Sweden x *godefroyae*	Paphanatics (Rod McLellan's)
" Woodland Elf	Fairiechant x *sukhakulii*	Orch. Zone (T. Root)
PHALAENOPSIS		
" Appalachian Dots	Melinda Nan x Elise de Valec	Breckinridge's
" Astoria	Summa x Mancini	Zuma Canyon
" Barbara Jean	Rosy Flora x Tungku Afzan	Zuma Canyon (Loeb Jr.)
" Barker's Buddha	Golden Buddha x Ana Hernandez	Breckinridge's
" Bruce Araki	Hilo Pink x Ida Fukumura	G. & D. Kobayashi
" Buttered Snow	Breckinridge Snow x *stuartiana*	Breckinridge's
" California Jade	Carol Owens x Tarragone	C. Pool (Floratech)
" Carolina Lancer	Abram McAndless x Kathleen Ai	Breckinridge's
" Checkered Rose	Fire-Water x Ana Hernandez	Breckinridge's
" Dusty Melinda	Melinda Nan x David Loeb	Breckinridge's
" Elaine Anne Nelson	Boutique x Glückskind	Mrs E. Nelson (F. Hark)
" El Molino	Gato x Yolanda Josefa Wever	Zuma Canyon
" Florida Rose	Mab x Ruth Stout	Breckinridge's (O/U)
" Foscoe Rose	Joseph Hampton x Flor de Mato	Breckinridge's
" Hawaiian Sugar	Winter Maiden x Hawaiian Snowfall	Carmela's
" Jaipur	Misty Green x *violacea*	Zuma Canyon
" Jefferson Snow	Metairie Snow x Schneewittchen	Breckinridge's

NAME	PARENTAGE	REGISTERED BY
PHALAENOPSIS (cont.)		
" Lista's Pride	Joey x Bobbie Gaye Lista	Richella's
" Madame Plum	Malibu Mademoiselle x Abendrot	Breckinridge's
" Marie Bliss	Blushing Cheeks x Cherry Dawn	Rod McLellan's
" Medford Spotlight	Mary Vance x Zuma Spotlight	Breckinridge's
" Medford Starburst	Joseph Hampton x Jan's Joy	Breckinridge's
" Monticello Ruby	Royal Amboin x Abendrot	Breckinridge's
" Pacazu	Pacific Stripe x Summa	Zuma Canyon (R. Brown)
" Phil-n-Jill	Waxwing x Golden Buddha	Paphanatics
" Poco's Rascal	Glad Melinda x Zuma Rascal	Zuma Canyon (Loeb Jr.)
" Poco's Saera Nan	Melinda Nan x Saera Loeb	Zuma Canyon (Loeb Jr.)
" Poco's Spotted Imp	Impressionniste x Glad Melinda	Zuma Canyon (Loeb Jr.)
" Rita Stribling	Jim Stribling x Snow Leopard	J. E. Wilson
" Rockingham Moon	Metairie Snow x Okee Doke	Breckinridge's
" Rouge Sunset	Satin Rouge x Oahu Sunset	Zuma Canyon (O/U)
" San Sebastian	Estrella Rojo x *violacea*	Zuma Canyon
" Schillig Rose	*schillerana* x Zwingli	Breckinridge's
" Smokey Blues	Golden Buddha x Medallion	Breckinridge's
" Summer Christmas	Lizza Henderson x Keith Shaffer	Kenji Yamaoka
" Supedrome Moon	Joseph Hampton x Superdrome Snow	Breckinridge's
" Ventana	*venosa* x Muriel Turner	Orch. Zone (H. Hager)
" Verona	Shirley Pendelton x Arromanches	Zuma Canyon
" Watauga Rose	Margit Moses x William Sanders	Breckinridge's
" Ypes Stripes	Ambotrana x Ella Freed	P. Matt (J. Ewing)
" Zwing Rose	Zwingli x William Sanders	Breckinridge's
PHALANDOPSIS		
" Lemon Pepper	*Vdps. gigantea* x *Phal. stuartiana*	Breckinridge's (Zuma Canyon)
POTINARA		
" Betty Price	*Pot.* Dorothy L. Adair x *Bc.* Olympic Meadows	D. Walters (J. Burkhalter)
" Elegant Dancer	*Blc.* Don De Michaels x *Pot.* Dark Eyes	Dogashima
" Love Call	*Blc.* Waikiki Sunset x *Sc.* Beaufort	Dogashima
" Love Passion	*Pot.* William Farrell x *Lc.* Trick or Treat	Dogashima
" Roger Kwiatt	*Blc.* Llewellyn x *Slc.* George Hausermann	E.F.G. Orch.
SOPHROCATTLEYA		
" Avis Aronovitz	*C.* Chocolate Drop x *Sc.* Beaufort	B. Reder
" Fairyland	*C.* Candy Tuft x *Sc.* Beaufort	Dogashima
" Mini Collins	*C.* Michael Collins x *Soph.* Arizona	Suwada Orch.
SOPHROLAELIOCATTLEYA		
" Diamond Princess	*L. rupestris* x *Sc.* Carol Lynn	Dogashima's (Toyama's)
" Love Harmony	*Lc.* Trick or Treat x *Slc.* Madge Fordyce	Dogashima
" Magenta Magic	*Slc.* Paprika x *Lc.* Elizabeth Off	R. Loszewski
TEOHARA		
" Taylor	*Haw.* Cheah Seng Khim x *Arach. cathcartii*	Mrs Macek (R. Ciesinski)
VANDA		
" Barstow's Midnight Pink	Dona Rome Sanchez x Faye Bennett	R. Barstow
" Barstow's Sundancer	Phetchaburi x Southeast Beauty	R. Barstow
" Dawn	*denisoniana* x Ida	T. Orch.
" Dorothy Sanchez	Katsuura x Lavoix	Dorothy's (T. Orch.)
" Raspberry Parfait	Piyaporn x Ponpimol	R. Barstow
" Ruby Dawn	Ruby Garth x Dawn Nishimura	How Yee Peng
" Suksamran's Delight	Fuchs Rosy Charm x Hank Levine	Suksamran's
VASCOSTYLIS		
" Shigenori Yamanaka	*Vasco.* Prapin x *Ascda.* Bangkhuntian Gold	Five Friendships
VUYLSTEKEARA		
" Lana Court	*Oda.* Ebury Court x *Vuyl.* Adlana	R. Dugger
WILSONARA		
" Aintree Red	*Oda.* Red Rum x *Wils.* Mancade	R. Dugger
" Red Leopard	*Onc. maculatum* x *Oda.* Dark Velvet	Baker & Ch.

*New intergeneric name with abbreviation for the following combination. The botanical authority follows each component genus.
Macekara (named in honour of Mrs M. E. Macek) = *Arachnis* Blume x *Phalaenopsis* Blume x *Renanthera* Loureiro x *Vanda* Jones x *Vandopsis* Pfitzer

† Species new to registration:–
Oncidium divaricatum

Reprinted from *The Orchid Review,* March, 1991.

New Orchid Hybrids

NOVEMBER 1990 REGISTRATIONS (CONCLUSION)

Supplied by The Royal Horticultural Society as International Registration Authority for Orchid Hybrids

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NAME	PARENTAGE	REGISTERED BY
ASCOCENDA		
" Freckles	*V.* Sankamphaeng x *Ascda.* Yip Sum Wah	I. Kothuber (T. Orch.)
" Fuchs Butter Baby	*Ascda.* Fuchs Golden Nugget x *Asctm. curvifolium*	R. F. Orch.
" Fuchs Star	*Ascda.* Fuchs Golden Nugget x *V. lamellata*	R. F. Orch.
" Fuchs Starburst	*Asctm. curvifolium* x *Ascda.* Khun Nok	R. F. Orch.
BRASSOCATTLEYA		
" Hausermann's Purity	*Bc.* Faberge x *Bc.* Pink Debutante	Hausermann's
" Hawaiian Morning	*Bc.* Doona Kimura x *C.* Princess Bells	Kodama's
" Miva Surprise	*C.* Hope x *Bc.* Pastoral	Michel Vacherot
BRASSOLAELIA		
" Yellow Bird	*B. nodosa* x *Bl.* Richard Mueller	H. & R. Nurs.
BRASSOLAELIOCATTLEYA		
" Gallant One	*Blc.* Fortune x *Blc.* Iroquois Trail	Hausermann's
" Hawaiian Love	*Blc.* William Stewart x *Lc.* Pirate King	Kodama's
" Irina Marina	*Lc.* Hina Sunset x *Blc.* Waikiki Gold	W. Murray (O/U)
" Irina Murray	*Lc.* Charlesworthii x *Blc.* Malworth	W. Murray (J. Redlinger)
" Miva Dorada	*Blc.* A. J. Schreiver x *Blc.* Malworth	Michel Vacherot
" Miva Pasmenil	*Bc.* Pastoral x *Lc.* Beaumesnil	Michel Vacherot
" Miva Tresor	Blc. Quadrille de Valec x *Blc.* Harlequin	Michel Vacherot
" Summer's Girl	*Blc.* Dark Waters x *Lc.* Waianae Sunset	Parit Chen
" Theresa Winkelmann	*Blc.* Lisa Irene x *Blc.* Debbie Dramm	Hausermann's
DENDROBIUM		
" Buttermilk	Emma x *falcorostrum*	W. Upton
" Cathy Beck	Mini Gem x *antennatum*	Univ. of Hawaii
" Coconut Ice	Aussie Bonanza x Hastings	R. E. Harris
" Crimson Joy	Crimson Fan x Margie Thomas	H. Kushima
" Dot Smitherman	Shawn Grezaffi x Mini-Stripe	J. Grezaffi
" French Lace	*falcorostrum* x Coljohn	W. Upton
" Hawaiian Birthday	Imelda Marcos x Ahulani Hinojosa	Kodama's
" Hawaiian Dandy	Super Star x *moniliforme*	H. & R. Nurs.
" Hirota	*bigibbum* x Somsak	Hirota Orch. (T. Orch.)
" Huval	Webb x Thailand	P. Huval (T. Orch.)
" Jay Smitherman	Dewi Sri x *phalaenopsis*	J. Grezaffi
" Judith Nakayama	Dawn Maree x Formidible	H. & R. Nurs.
" Kenny Green	Aussie Green x *ruppianum*	W. Upton
" Kevin Tokunaga	Crimson Glow x Hearthrob	H. & R. Nurs. (Kaoru Oka)
" Memoria Elizabeth McQueen	Jaquelyn Thomas x Orchidwood	J. McQueen
" Mini Gem	*bigibbum* x *carronii*	Univ. of Hawaii
" Pink Crystal	Jombock x John Upton	W. Upton
" Thailand White	White Tower x Kiyomi Beauty	Orquilandia Trop. (T. Orch.)
" White Lightning	Jaq-Hawaii x Walter Oumae	H. & R. Nurs.
DORITAENOPSIS		
" Breckinridge Cherryblush	*Dtps.* Alice Loeb x *Phal.* Percy Porter	Breckinridge's
" Carolina Snowball	*Dtps.* Orglade's Puff x *Phal.* Schneewittchen	Breckinridge's
" Hawaiian Dancer	*Phal.* Herbert Hager x *Dtps.* Odoriko	Kodama's
" Hawaiian Ideal	*Phal.* Pink Cheers x *Dtps.* Odoriko	Kodama's
" Kobe	*Phal.* Zuma Happiness x *Dtps.* Orglade's Party Magic	Zuma Canyon
" Minerve	*Dtps.* Orglade's Puff x *Phal.* Orglade's Secret	Zuma Canyon
" Miva Calao	*Dtps.* Chardonneret x *Phal.* Callicorne	Michel Vacherot
" Miva Marlise	*Dtps.* Marta De Rivilla x *Phal.* Elise de Valec	Michel Vacherot

NAME	PARENTAGE	REGISTERED BY
DORITAENOPSIS (cont.)		
" Miva Martapi	*Dtps.* Marta De Rivilla x *Phal.* Api	Michel Vacherot
" Monticello Roseblush	*Phal.* Melinda Nan x *Dtps.* Alice Loeb	Breckinridge's
" Mystical Dream	*Dtps.* Natchez x *Phal.* Hausermann's Sunny	Hausermann's
" Poco's Clipper	*Dtps.* Festivity x *Phal.* Glad Melinda	Zuma Canyon (Loeb Jr.)
" Purple Sunset	*Dtps.* Escapade x *Phal.* Ram Charger	Hausermann's
" Ton Jy Diastar	*Phal.* Pinlong Cardinal x *Dtps.* Odoriko	Chou Chien Chuan
" Ton Jy Pecan	*Dtps.* Happy Valentine x *Dtps.* Ta Bei Chou	Chou Chien Chuan
EPICATTLEYA		
" Joe's Baby	*Epc.* Max Pavich x *C. bicolor*	J. Deifel
KIRCHARA		
" Tropical Jewel	*Slc.* Tangerine Jewel x *Epi. stamfordianum*	H. & R. Nurs.
LAELIOCATTLEYA		
" Burgundy Gem	*L. pumila* x *C.* Angelwalker	H. & R. Nurs.
" Hausermann's Essence	*C.* Penny Kuroda x *Lc.* Irene Finney	Hausermann's
" Hausermann's Moonsilk	*Lc.* John MacArthur x *Lc.* Purple Rapture	Hausermann's
" Hawaiian Attraction	*Lc.* Shellie Compton x *Lc.* Zuiho	Kodama's
" Hawaiian Invitation	*C.* Kittiwake x *Lc.* Zuiho	Kodama's
" Memory Ted Schelpe	*Lc.* Culminant x *Lc.* Prophesy	Mrs C. Coll (Schelpe)
" Miva Sombra	*Lc.* Marchenoir x *Lc.* Dollie Anne Cole	Michel Vacherot
" Miva Tendresse	*Lc.* Irene Finney x *Lc.* Beaumesnil	Michel Vacherot
" Pink Lady	*Lc.* Irene Finney x *L. sincorana*	H. & R. Nurs.
" Snow Fairy	*Lc.* Shellie Compton x *Lc.* Carol Ann Haussermann	Hausermann's
" Sweet Candy	*C.* Candy Tuft x *L. pumila*	J. Miura
MILTONIA		
" Alfa D'Or	Albacete x Eclat D'Or	Vach. & Lec.
" Blackberry Cream	April Bay x Ella McDowell	Chieri's (Beall's)
" Cassis de Valec	Storm x Piccadilly	Vach. & Lec.
" Granite Falls	Limelight x Phil Sayer	Baker & Ch.
" Mount Baker	Rose Carpenter x *vexillaria*	Baker & Ch.
MOKARA		
" Kan Belle	*Aranda* Christine x *Ascda.* Laksi	T. Orch.
ODONTIODA		
" Belcroute	*Oda.* Red Rum x *Odm.* Ostro	E. Young O.F.
" Beresford	*Oda.* A. G. Ellwood x *Odm.* Ostro	E. Young O.F.
" Little Big Man	*Oda.* Chanticleer x *Oda.* John Leathers	S. Klopsch (N. Powell)
" Santana	*Oda.* Lingway x *Oda.* Marshall's Rum	S. Klopsch (R. Dugger)
ONCIDIUM		
" Aloha Iwanaga	Goldiana x Star Wars	M. Sato (E. Iwanaga)
" Sweet Sugar	Aloha Iwanaga x *varicosum*	M. Sato
PAPHIOPEDILUM		
" Batelier	Goultenianum x Battle of Egypt	Vach. & Lec.
" Dennis Kleinbach	Onyx x Sheila Hanes	Baker & Ch.
" Flamingo Gold	*concolor* x *micranthum*	K. Porter
" Highland Luck	Hoopla x Veritilario	J. McCubbin (W. Hughes)
" Joan of Arc	Joan Dougherty x Virgo	Curved Air Orch. (K. Porter)
" Kevin Porter	*bellatulum* x *micranthum*	K. Porter
" Low Indigo	*lowii* x Vintner's Treasure	Curved Air Orch. (K. Porter)
" Memoria Harry Schultz	*urbanianum* x Vintner's Treasure	W. Turville
" Miva Rensuk	Rencontre x *sukhakulii*	Michel Vacherot
" Profil de Valec	Procrustes x Psyche	Vach. & Lec.
PHALAENOPSIS		
" Amazing Aura	Winter Carnival x Cadence	Hausermann's
" Banner Rosemist	Mary Tuazon x Meteor	Breckinridge's
" Bogalusa Frost	Rosemary Shaffer x Jim Frederick	Breckinridge's
" Boone Frost	Breckinridge Snow x Jim Frederick	Breckinridge's
" Caswell Moonglow	Jim Frederick x Freedom's Best	Breckinridge's
" Cricket	Mem. Daisy Cohen x Via Malibu	Zuma Canyon
" Federal Snow	Jim Frederick x Okee Doke	Breckinridge's

NAME	PARENTAGE	REGISTERED BY
PHALAENOPSIS (cont.)		
" Fete de Valec	Feria x Spitzberg	Vach. & Lec.
" Golden Grapes	Claire Barreta x *amboinensis*	Chou Chien Chuan
" Hawaiian Castle	Juanita x Joseph Hampton	Kodama's
" Hawaiian Expectation	Rosemary Shaffer x Alice Gloria	Kodama's
" Irina Murray	Joseph Hampton x Misty Green	W. Murray (J. Redlinger)
" Marie-Aimee	Mariposang Puti x Emeraude	Vach. & Lec.
" Miva Aurissimo	Cataracte x Miva Aurore	Michel Vacherot
" Miva Aurore	Provence x Boree	Michel Vacherot
" Miva Barbalise	Barbara Moler x Elise de Valec	Michel Vacherot
" Miva Barbara	Sonnentau x Barbara Moler	Michel Vacherot
" Mivabilis	*amabilis* x Chamonix	Michel Vacherot
" Miva Blandine	Tarragone x Chamonix	Michel Vacherot
" Miva Bonheur	Arromanches x Callicorne	Michel Vacherot
" Miva Copper	Golden Buddha x Ramage	Michel Vacherot
" Miva Crinoline	Raptigny x Pomponnette	Michel Vacherot
" Miva Lippelise	Mivac Lipperonde x Elise de Valec	Michel Vacherot
" Miva Mini	Miva Lippelise x *lindenii*	Michel Vacherot
" Miva Moliere	Danse x Comedie	Michel Vacherot
" Miva Musique	Capella x Ramage	Michel Vacherot
" Miva Neige	Chamonix x Henriette Lecoufle	Michel Vacherot
" Miva Panda	Argentieres x Cini	Michel Vacherot
" Miva Pieta	Georges Seurat x Hokuspokus	Michel Vacherot
" Pinkette	Monticello x Warm Heart	Hausermann's
" Pink Paradise	Carnival x Alma Heidorn	Hausermann's
" Plaisir de Valec	Apollinaire x Pleiade	Vach. & Lec.
" Rebecca's Joy	Mollie's Joy x Rebecca Arditti	Breckinridge's
" Roman de Valec	Arromanches x Rossignol	Vach. & Lec.
" Roscoff	Rouge-Gorge x Olympe	Vach. & Lec.
" Schillo-Snow	Hilo Lip x *schillerana*	Breckinridge's
" Silk Rose	Hausermann's Candy x Ram Charger	Hausermann's
" Sonja's Snowball	Sonja x Okee Doke	Breckinridge's
" Spring Ivory	Mary Tuazon x Spring Silk	Breckinridge's
" Stone Hot	Talung's Red Fire x Chiayi Spot	Chen Gee-En
" Stone Morning	Prima x Princess Kaiulani	Chen Gee-En
" Stone Voice	Talung's Red Fire x Freed's Danseuse	Chen Gee-En
" Sunset Clouds	Lynn Anders x Tickled Pink	Hausermann's
" Sweet Surrender	Choctan x Tickled Pink	Hausermann's
" Tangipahoa	*schillerana* x Margit Moses	Breckinridge's
" Ton Jy Pepper	Schillerano-stuartiana x Frisson	Chou Chien Chuan
" Ton Jy Smile	Hsu Li-Shian x Goldiana	Chou Chien Chuan
" Ton Jy Starry	Paifang's Queen x Percy Freed	Chou Chien Chuan
" Ton Jy Venus	Abendrot x Coral Isles	Chou Chien Chuan
" Tuazon Rose	Mary Tuazon x Herbert Hager	Breckinridge's
" Victorious	Golden Gift x Buddha's Gem	Hausermann's
" Winston Salem	Woodlawn Lass x Jim Frederick	Breckinridge's
POTINARA		
" Moon Glow	*Pot.* Pastushin's Gold x *Blc.* Verdant Venture	Hausermann's
" Pink Veil	*Sc.* Calypso x *Pot.* Hausermann's Venture	Hausermann's
RENANTHOPSIS		
" Valle Peach	*Ren.* Brookie Chandler x *Phal.* Joseph Hampton	Breckinridge's
" Wanderlust Glow	*Ren.* Charlotte Hall x *Phal.* Silver Anniversary	Breckinridge's
SOPHROCATTLEYA		
" Platinum Candies	*C.* Candy Tuft x *Sc.* Petite Pride	J. Miura
SOPHROLAELIOCATTLEYA		
" Berry Bright	*Sl.* Gratrixiae x *Sc.* Calypso	Hausermann's
" Double Trouble	*Slc.* Tangerine Jewel x *Slc.* Mine Gold	Ramona Wilson (R. Takafuji)
" Hawaiian Canary	*Lc.* Gila Wilderness x *Slc.* Kauai Starbright	Kodama's
" Jewel Magic	*Slc.* Tangerine Jewel x *C.* Penny Kuroda	H. & R. Nurs.
" Miva Ambre	*Slc.* Orient Amber x *Lc.* Ocarina	Michel Vacherot
" Phil Sayer	*Slc.* Falcon x *Soph. coccinea*	Chieri's (P. Sayer)
VANDA		
" Bonnie Anderson	Gordon Dillon x Bangkok Sunrise	R. F. Orch.
" Fuchs Blush	Bangkok Sunrise x Kretcant	R. F. Orch.

CORRIGENDA *Orchid Review* list of:–

March 1990, *Neogracum* should read *Neograecum.*
July 1990, parent of *Lc.* Evermountain's Sun: *Lc.* Stephen Oliver should read *Lc.* Stephen Oliver Fouraker.
September 1990, parent of *Ascda.* Dorathy Kuper: *V.* Fuch's Delight should read *V.* Fuchs Delight.
September 1990, parent of *Dtps.* Poco's White Hope: *Phal.* Gloria Swanter should read *Phal.* Gloria Swantner.
September 1990, parent of *Phal.* King Godwin: Francis Godwin should read Frances Godwin.
September 1990, parent of *Pln.* Gerry Mundey: Tongarira should read Tongariro.
October 1990, *Cym.* Leonard Menuks should read Leonard Muenks.
October 1990, parent of *Sc.* Brevi Lynn: *Sc. brevipedunculata* should read *Soph. brevipedunculata.*
October 1990, parent of *Slc.* Dixie Rose: *Soph. rosea* should read *Soph. coccinea.*
October 1990, *Trpla.* Suave Margins: entry should be deleted.
November 1990, parent of *Brs.* Arania Verde: Rex. – full point should be deleted.
November 1990, parent of *Cym.* Roman Holiday: Fair lady should read Fair Lady.
November 1990, parent of *Paph.* Can't Forget: Gilalitis should read Gilantis.
November 1990, parent of *Paph.* Macabre: Sukhakulii should read *sukhakulii.*
November 1990, parent of *Paph.* Sunken Treasure: Sukhakulii should read *sukhakulii.*
November 1990, parent of *Phal.* Baby Face: Glad Melina should read Glad Melinda.
December 1990, parent of *Phal.* Baldan's Kaleidoscope: Hausermann's Canon should read Hausermann's Candy.
December 1990, parent of *Phal.* Baldan's Snowball: Hunabu should read Hunabu Sweet Heart.
December 1990, parent of *V.* Charethy's Chuckles: parent Kanazoa should read Kanazda.

IMPORTANT NOTICE

Please note that photocopies of the APPLICATION FOR REGISTRATION OF AN ORCHID HYBRID form are only acceptable if they are the same size as the original form* and are double sided.

*The form is the International Paper Size A4 i.e. 8.3 inches x 11.7 inches/210mm x 297mm.

Copies of the application forms are available without charge and post free from the Registrar at this address:

Orchid Registrar
P.O. Box 1072
FROME
Somerset
BA115NY
England

NOTICES

SLOH Addendum 1986–1990. This is scheduled for publication in May 1991. Details including price will be announced here shortly.

Please note that the Main Work (1856–1945) and the 1946–1960 Addendum are no longer available from the American Orchid Society or the Royal Horticultural Society.

Reprinted from *The Orchid Review,* April, 1991.

ORCHIDS ARE FUN IN '91

12th Australian Orchid Conference

Perth, September 13th-19th, 1991

What our Conference is all about!

Our Conference is the getting together of people with a common interest in the cultivation and preservation of The Orchid.

An interesting and informative lecture programme is arranged, with many diverse topics and subjects, all pertaining to the successful cultivation, breeding and general improvement of the many different genera in the WORLD OF ORCHIDS.

The speakers are of national and international renown, and are certainly one of the highlights of any Conference. The ideas put forward are at times quite thought provoking and enlightening.

Workshops and Discussion Forums are another avenue of increasing one's knowledge of all their favourite genera.

Quite a large Orchid Display is also held in conjunction with these Conferences, and are of a very high standard. The Gold, Silver and Bronze medallions awarded at these Shows are much sought after by enthausists, and to have a Gold medallion awarded to a particular plant enhances its value and reputation dramatically.

Also included are many social activities, more avenues for friendship – these activities include Cocktail Parties, Home Entertainment, Tours and the highlight of any Conference the Banquet, where all major prizes and medallions are presented.

During the entire Conference the atmosphere is one of friendship and cordiality where Orchid Growers meet, make new friends and acquaintances, while previous registrants get together, renew old friendships made at previous Conferences.

So you see Conferences are interesting, informative and entertaining and enjoyed by all participants.

Badge Swappers Corner

To enable those 'bitten by the bug' to pursue their fascinating hobby, an area will be available where badge swappers can meet. A notice board will be provided for 'do it yourself' advertisements, i.e. special badge requests, badge friends, contacting other badge collectors known to be at the Conference, swaps you have available etc. The General Meeting of the Badge Club will also be held during the conference. For further information regarding this activity, please contact Mrs Jean Herbert c/o PO Box 1050 Morley, WA 6063.

Invitation to Judges

Certified Judges of all National and International Societies are invited to judge at the Conference Show. Judges must be full registrants for the Conference before assignment as a Conference Judge. A special Judges Breakfast will be held on Friday, 13th September at 7am, with the judging commencing immediately afterwards. This breakfast is for Conference Judges only. Requests to judge should be made on the Registration Form by filling out the appropriate details or by contacting the Conference Secretary.

Acknowledgement

On receipt of the Registration Form and fees, a letter of confirmation detailing all items reserved and payments made will be forwarded. No person can be officially registered or accommodation reserved without payment of all necessary fees as stated on the Registration Form.

Cafeteria

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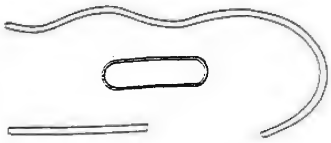

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Our Aim

Orchid hobbyists throughout the State plan to make this a truly memorable Conference and Show for registrants, participants and visitors by giving them the opportunity to be part of something quite unique. We believe that we will be able to set a new standard of excellence for other States to emulate when it is their turn to host this prestigious event.

The choice is always yours, but if you want to be a part of this memorable Conference then Perth, Western Australia, must be your destination for September 12th-19th, 1991.

All enquiries: Conference Secretary
PO Box 1050
Morley, WA 6063

Exhibitor Information

1. The theme of the Show is 'Orchids Are Fun in '91'.
2. A Liaison person will be provided for all interstate and overseas exhibitors and the Show Marshal.
3. Display Areas available are:

Affiliated Societies (with OSWA)	8-9 sq.m.
Commercial Exhibitors	8-9 sq.m.
Eastern States/Overseas Exhibitors	7-8 sq.m.
Individual or Group	7-8 sq.m.

Special assistance will be provided to Eastern States and Overseas Orchid Societies with the staging materials such as pine bark, wood chips, coconut fibre and information on local sources for other display material required.
4. The simulated roller coaster track can be used as a base or support for display backdrops (there is restriction of the attachment of materials to this structure where as the venue owners will not allow anything to be affixed to the walls).
5. The Organisers will endeavour to meet special needs brought to our attention.
6. All customs and quarantine clearance will be at Perth Airport or Norseman Quarantine Station.

The Show Schedule will be provided to all Society Secretaries or you can obtain a copy by writing to the Conference Secretary.

1991 Bonsai and Orchid Assoc. Buyer's Guide

The Bonsai and Orchid Association is now compiling its 1991 Buyer's Guide and will list all Growers, Importers, Exporters, Manufacturers, Wholesalers, Retailers, Suppliers and allied trade firms from around the world including names, addresses and other data.

According to the committee, the directory will be designed in a buyer's Guide format and all growers, exporters, importers of Bonsai and Orchids will be identified by crop categories.

Manufacturers, Distributors, Importers, Exporters, and allied trade firms will be identified by product categories.

Retailers, Mail Order and others will be identified by products or Bonsai or Orchid carried.

Trade publications and Associations in the Bonsai & Orchid industry will be listed free.

The deadline to be listed in the 1991 Buyer's Guide is August 1, 1991.

For more information contact, Bonsai & Orchid Association 26 Pine Street, Dover, Delaware 19901 U.S.A. or Call (302) 736 6781 or Fax (302) 736 6763.

Jubilee Orchid Exhibition in Holland

The Dutch Orchid Society was established in 1931 with the result that this year they celebrate the sixtieth anniversary of their national orchid club.

This festivity prompted its council to consider the possibility of a national exhibition of orchids with some international participation.

In recent years orchid shows have been organised in Rotterdam, Leiden and Utrecht. However, this time the city of Nijmegen on the border of the river Waal south of Arnhem and near the border of Germany was selected as the site for the Jubilee Exhibition.

It will be held from the twelfth to the twentieth of October 1991; open daily from 10 a.m. to 5 p.m., last Sunday to 4 p.m.

The show will be arranged in the greenhouses of the Botanic Garden (Hortus) of the University of Nijmegen, situated behind the Radbout Hospital, which is indicated all through the town of Nijmegen.

Facilities for the sale of orchids by growers will be available.

In Holland both hobbyists and commercial growers are united in one Society. The Society publishes the bimonthly Journal called "Orchideeen".

For further information contact:
The secretary,
Mrs H.M. Jordens-Schlahmilch,
Hoekenburglaan 21,
2275 TC Voorburg,
Holland.

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Cymbidium Club of Australia

Annual Seedling Competition

Our 1990 competition has been run and won, and we had a total of 43 plants benched for the year, down considerably from 1989 figures. The Judges thought that the quality of seedlings overall were not as good as 1989. However, the winners were good flowers.

The competition is conducted for early flowers from March to July and late flowers from August to October. At each monthly meeting a Miniature, Intermediate and Standard plant is judged. The slides are shown at the end of the year, and the judges from O.S.N.S.W. select the winner of the early flowers and the winners of the late flowers. After viewing all the slides, they then select the overall winning seedling of the year. (This is the judges choice.)

Orchid of the year *Cymbidium* Cronulla, owned by H. Podobransky.

At our November meeting, the members select from the slides their choice of the best orchid of the year. (This is the members choice.)

Winning the competition for 1990 was a standard flower owned by H. Podobransky. The cross was — Cymbidium Cronulla Hybridised by A. Bryant — a light pink orchid of (12) flowers, a white lip with red band.

OVERALL WIDTH — 108mm
SEPAL — 40mm
LABELLUM — 35mm
WIDTH OF PETAL — 35mm

For the member's choice —
C. WINTER FAIR X C. POETIC

C. WINTER WONDER X
C. BOTANY BAY

owned by Fred Weir was selected. This was a crystal white standard of 9 flowers. Hybridised by A. Bryant, a white lip with red dots.

OVERALL WIDTH — 95mm
SEPAL — 41mm
LABELLUM — 42mm
WIDTH OF PETAL — 40mm

By the way our Treasurer Rev. Black, put up for judging a sport of Palace Pearl Marie and it picked up an A.M. and a Bronze certificate. (The little fella doesn't bench too often, but when he does . . . look out.)

Also many thanks to our Club Photographer — Frank Golding.

For and on behalf of the Club Secretary.

Ted Lalor
Vice-President
19 Kareela Crescent
Greenacre
N.S.W. 2190

New A.N.O.S. Group Formed

The Australasian Native Orchid Society – Wide Bay group held its first meeting in the Maryborough (Qld) Neighbourhood Centre, on Thursday March 21st. Twenty-five prospective members attended the first meeting and there were five apologies, so the group is off to a solid start.

The committee elected were:
President – Bob Scully
Vice President – George Rex
Hon. Secretary – Ruby Ditchmen
Hon. Treasurer – Paul Vanzetta

The group will meet once a month, on either a Thursday or Sunday. The Thursday meeting will be held in the evening, and the Sunday meetings will commence at 10am to enable members to participate in field trips and social outings.

Any correspondence should be addressed to the secretary, Mrs Ruby Ditchmen, 116 Gympie Road, Maryborough Qld 4650.

The Orchid Society of NSW Orchid Workshop

The Orchid Society of NSW Ltd will be conducting an Orchid Workshop, hosted by Griffith Orchid Society, at the Wade High School, Griffith on Saturday, 5th October, 1991. The Workshop will be held in conjunction with the South West Regional Orchid Show and a number of excellent speakers have been arranged. For further information please contact the Workshop Secretary, Mrs Audrey Madden, 44 First Farm Drive, Castle Hill 2154.

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D034 Kurun 'Magi' x canaliculatum 'Claret' deep red miniature sized flowers on long pendant racemes. Claret is a black-red canaliculatum.
D062 hookerianum x suave sweetly scented, miniature green flowers, with the possibility of some with fine brown spotting. Arching to pendant racemes.

Bulb and lead cymbidium seedlings, $9.00

C032 Brown Eyes 'Little Annie' x Wyanga 'Hampton' a second generation madidum cross for long spiked, arching yellows and greens.

These are but a few of our crosses. For a catalogue please send a stamp.

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Mount Gambier & District Orchid Society Seminar/Workshop

The seminar/workshop is to be held on the Queens birthday weekend, June 8th and 9th at the Masonic Hall, Helen St, Mount Gambier. The cost of the seminar/workshop is $25 single and $40 double. This price includes dinner Saturday evening and a concluding barbecue on Sunday at 12.00 noon.

Speakers/demonstrators at the seminar/workshop will be Kel Staples and Dean Johnston. Their topics will be cattleyas, paphiopedilums, cymbidiums and other genera. Anyone with problem plants or plants needing potting or dividing may bring them along. Also a small number of flowering topic plants would be appreciated to form a display.

This promises to be a full and informative program, with many opportunities to learn from other growers' experience. The more people who attend this seminar/workshop the greater the guarantee of a successful weekend. Nominations for this seminar/workshop close on Monday June 3rd.

Further information can be obtained by telephoning Mr James Shaughnessy, our club president, on 087 25 9051.

LETTERS

Dear Editor,

There is a request that you may be able to help me with. I am a bit of a desk top publishing techie. It is very difficult to find electronic clip art for use in orchid society newsletters. Much of the best material is not in the public domain. As an author of software myself, I am very sensitive to violation of copyrights. Currently I am trying to collect some line drawings to make a collection of electronic clip art that orchid societies may include in their publications. My real motive is to use all profits from these disks of clip art for conservation efforts. As you well know there are many fine organizations dedicated to saving the forests in Central and South America. The publishing of some disks of clip art could send a few dollars into their coffers. I think this a worthy endeavour. Publication of clip art disks is rather easy. I am willing to donate any time I put in to collecting and distributing these disks once we have sufficient quality clip art.

Could you contact any Australian growers or graphic artists to see if they would be interested in releasing some line art for inclusion in such a collection. In the states, and I am sure in Australia and in Europe, there are many orchid societies that are preparing their newsletters with desk top publishing programs. I think there is a small but available market for this product. Certainly the contribution of the artist will be noted on each graphic.

Interested artists may write to me at: Amherst Orchid Society, George Collison, Secretary, 525 E. Pleasant Street, Amherst MA 01002 U.S.A.

Show Results

The results and a full report of the Orchid Society of NSW Ltd, Autumn Show held in conjunction with the Sydney Royal Easter Show and the Townsville Orchid Society Inc., Annual North Queensland Autumn Show will be published in the August issue of the Australian Orchid Review.

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Specialists in Species Orchids

The Victorian Orchid Club Up-date

Ballarat Orchid Workshop

The VOC held a most successful workshop at Ballarat on the 19th May, Registrants received valuable information on a wide range of genera by experienced members of the Victorian Orchid Club. A most enjoyable day was had by all.

* * *

Victorian Orchid Club "Winter Show"

The VOC will be holding its Winter Show at Westfield Shoppingtown-Southland-Cheltenham on the 22nd July until the 27th July during shopping hours.

Justin Tkatchenko
Public Relations Officer

Sarcochilus Request

Mr George Collison of the Amherst Orchid Society, 525 E. Pleasant Street, Amherst, MA 01002, USA, would like to hear from Australian hybridizers of the genus *Sarcochilus*, who can export to the U.S.

Mr Collison read an article on the species in the American Orchid Society Bulletin and he, as well as other members of the club, are very interested in "these lovely plants".

In every leaflet from U.S. growers he has received, hybrids of the plants were never mentioned.

If any Australian growers are interested, contact Mr Collison at the above address as he is also only too willing to distribute any leaflets to club members as well as other orchid clubs in his region.

Atherton's Orchid Painter

Centred on the Atherton Tableland is a small group of native orchid enthusiasts, included among whom is Mair Swann, a trained botanical illustrator. How has a mother of five, a grandmother and manager of a farm in England, come to be painting orchids in far-away Atherton?

An overland trip in the late 1970s from the Mediterranean to West Africa and then Kenya introduced Mair to many new plants, and she began to sketch them in detail. Her next trip was to northern Italy, in company with a photographer who worked for the Royal Botanic Gardens Kew, when she drew and painted terrestrial orchids. When her work came under the notice of Dr. Phillip Cribb, Mair was able to go to Kew, where she received training and produced illustrations for various publications, culminating in 72 black-and-white plates for "The Mountain Flowers of Southern Tanzania" by Dr. P.J. Cribb and Rev. G.P. Leedal.

Following a visit to her son in Adelaide, Mair drove around the south and east coasts visiting orchid contacts, some of which had been made at Kew, and finishing up with Dr. Bill and Bev Lavarack in Townsville. It was Bill who insisted that she must visit the Atherton Tableland, and she did — to stay for one year with the Rev. Ron and Enid Collins. It was these two who encouraged her work, and during her stay with them she painted a large portfolio of watercolours of native orchids, which formed a much-admired exhibition at the 8th Australian Orchid Conference at Townsville in 1983.

By this stage Mair had fallen in love with Atherton and decided not to return to live in England. She bought an old "Queenslander", which was lovingly restored with the same care and dedication that she applies to painting. The climate, the variety of native orchids and the support of the local orchid fraternity were all factors in her decision to live in Australia.

Mair insists that she is not an artist, but a botanical illustrator: each painting is an accurately measured depiction of the individual plant. She finds this precision a great challenge, and it is this which provides the enjoyment that she gets from botanical illustration. However, those that have seen her work admire also her artistic skill in the composition of her paintings and in her attention to supplementary detail.

To make her work available to a wider public Mair now has available four life size prints in a limited edition. These are available from 'Orchidaceous' of P.O. Box 378 Alstonville 2477 or Mrs. M. Swann, Edith St., Atherton, Qld. at approximately $40 each. ■

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A Moment in Orchid History

by Ray Robinson

Alick Dockrill is one of the most knowledgeable and certainly one of the most respected Orchid Botanists in Australia today. On Sunday the 17th March, 1991 the Australian Orchid Foundation recognized this fact by presenting Alick Dockrill with an "Award of Honour". The presentation was made by Dr Bill Lavarack, a Senior Member of the Research Committee of the A.O.F. on behalf of the Directors and Members, in front of a crowd of 53 local Orchid Identities and Members of A.O.F. from places as far a field as Mossman to Proserpine.

Among those present at the presentation were notable Orchid names such as Claude Leroy, Ken MacPherson and Mal Brown. Mal and Alick formed a partnership with Mal sending Alick new plants from the McIlwraith Range throughout the early sixties. In this way *Dendrobium malbrownii* and many others came to be first recorded.

Alick Dockrill now joins previous recipients of the award:

Hermon Slade
Gerald McCraith
The late Bill Murdock

Alick's award citation reads:

It is recognized:

"That you have spent a lifetime observing and recording accurate details of orchids in N.S.W., Q'land, and P.N.G.

That you were the author of "Australian Sarcanthinae" (1967)

That you were the author of "Australian Indigenous Orchids" (1969). This publication has proven to be a monumental work which was published at a time when there was very little accurate data on Australian epiphytic orchids.

That you held the post of Curator at the Herbarium, Lae PNG with memorable distinction.

That you provided notes and illustrations for "Tropical Orchids of Australia" by P.S. Lavarack & B. Gray (1985)

That you described four new orchid genera, and also described many new orchid species.

That you are held in great respect and high esteem by all those within the Australian Orchid fraternity".

Top: Alick Dockrill. **Above:** Left to right: Dr. Bill Lavarack, Alick Dockrill and Len Lawler at the presentation. — *Photos: Ray Robinson*

Alick William Dockrill

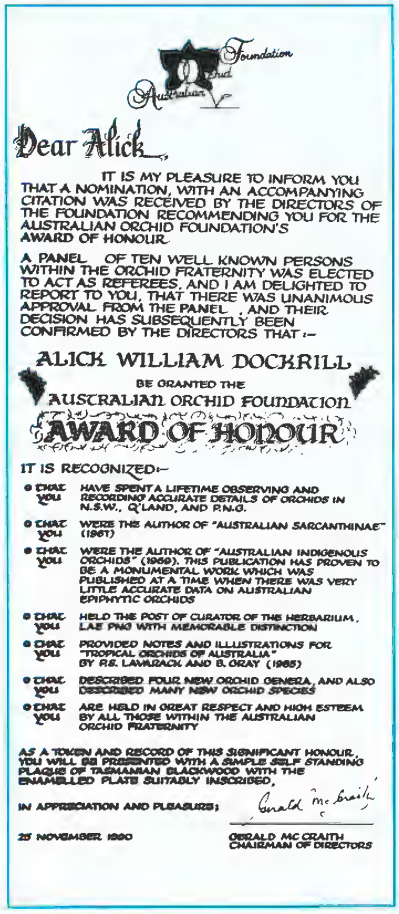
Alick Dockrill was born in 1915 at Enmore, near Sydney, one of a family of five. Before completing his secondary schooling Alick had become interested in native orchid species, mainly through the guidance of Eric Hayes and Percy Gilbert. These two were active in the orchid fraternity of Sydney as can be seen by a study of early issues of the Australian Orchid Review, of which Gilbert was editor. It was Gilbert who introduced him to Rev. Herman Rupp, thus initiating a friendship that continued till Rupp's death.

Alick commenced a comprehensive study of native orchids in his early twenties, and began corresponding with orchid authorities both in Australia and overseas, and his interest became centred on taxonomy. He commenced submitting papers to various journals in 1954 and to date has over 75 published. Those who made a major contribution to the formation of Alick's philosophy of orchid taxonomy include Mr. K. Mair of Sydney, Mr. J. Willis of Melbourne, Professor P. Vermeulen of Amsterdam and the late Dr. R.E. Holttum of Kew.

After moving to Cairns in 1957 he

Left to right: John Jones, Ken McPherson, Alick Dockrill and Claude LeRoy. Some great orchid identities of the past. — *Photo: Ray Robinson*

began sketching and describing northern species. The first fruit of this study was the publication of *Australian Sarcanthinae* in 1967, in which four new genera were described together with many transfers and reductions to synonomy. This was closely followed, in 1969, by *Australian Indigenous Orchids* 1, which contained drawings and descriptions of all the epiphytic and lithophytic species together with those terrestrials known to occur in the tropics; a total of 324 species and varieties in 72 genera. This book became required reading for all students of Australian orchids and remains so to this day.



Australian Orchid Foundation

Dear Alick,

IT IS MY PLEASURE TO INFORM YOU THAT A NOMINATION, WITH AN ACCOMPANYING CITATION WAS RECEIVED BY THE DIRECTORS OF THE FOUNDATION RECOMMENDING YOU FOR THE AUSTRALIAN ORCHID FOUNDATION'S AWARD OF HONOUR.

A PANEL OF TEN WELL KNOWN PERSONS WITHIN THE ORCHID FRATERNITY WAS ELECTED TO ACT AS REFEREES, AND I AM DELIGHTED TO REPORT TO YOU, THAT THERE WAS UNANIMOUS APPROVAL FROM THE PANEL, AND THEIR DECISION HAS SUBSEQUENTLY BEEN CONFIRMED BY THE DIRECTORS THAT :–

ALICK WILLIAM DOCKRILL

BE GRANTED THE

AUSTRALIAN ORCHID FOUNDATION

AWARD OF HONOUR

IT IS RECOGNIZED:–

- THAT YOU HAVE SPENT A LIFETIME OBSERVING AND RECORDING ACCURATE DETAILS OF ORCHIDS IN N.S.W., Q'LAND, AND P.N.G.
- THAT YOU WERE THE AUTHOR OF "AUSTRALIAN SARCANTHINAE" (1967)
- THAT YOU WERE THE AUTHOR OF "AUSTRALIAN INDIGENOUS ORCHIDS" (1969). THIS PUBLICATION HAS PROVEN TO BE A MONUMENTAL WORK WHICH WAS PUBLISHED AT A TIME WHEN THERE WAS VERY LITTLE ACCURATE DATA ON AUSTRALIAN EPIPHYTIC ORCHIDS
- THAT YOU HELD THE POST OF CURATOR OF THE HERBARIUM, LAE PNG WITH MEMORABLE DISTINCTION
- THAT YOU PROVIDED NOTES AND ILLUSTRATIONS FOR "TROPICAL ORCHIDS OF AUSTRALIA" BY R.E. LAVARACK AND B. GRAY (1985)
- THAT YOU DESCRIBED FOUR NEW ORCHID GENERA, AND ALSO DESCRIBED MANY NEW ORCHID SPECIES
- THAT YOU ARE HELD IN GREAT RESPECT AND HIGH ESTEEM BY ALL THOSE WITHIN THE AUSTRALIAN ORCHID FRATERNITY

AS A TOKEN AND RECORD OF THIS SIGNIFICANT HONOUR, YOU WILL BE PRESENTED WITH A SIMPLE SELF STANDING PLAQUE OF TASMANIAN BLACKWOOD WITH THE ENAMELLED PLATE SUITABLY INSCRIBED.

IN APPRECIATION AND PLEASURE;

Gerald McCraith

25 NOVEMBER 1990

GERALD MC CRAITH
CHAIRMAN OF DIRECTORS

Alick's Award Citation. — *Photo: Ray Robinson*

In 1966 Alick was appointed Keeper of the Herbarium in the Division of Botany Botanic Garden at Lae, Papua New Guinea, a position he occupied until his return to Australia in 1970. During this period he was able to expand his knowledge of the relationship of Australian orchids with those of the Indo-Malayan region.

On his return to Australia he took up a position in the herbarium of the Tropical Forest Research Centre, C.S.I.R.O., at Atherton, until his retirement early in 1980.

Now living in Atherton with his family, Alick has completed a revision of *Australian Indigenous Orchids,* taking into account new discoveries and name changes. The manuscript has been in the hands of the publishers for some time and publication is expected shortly. ■

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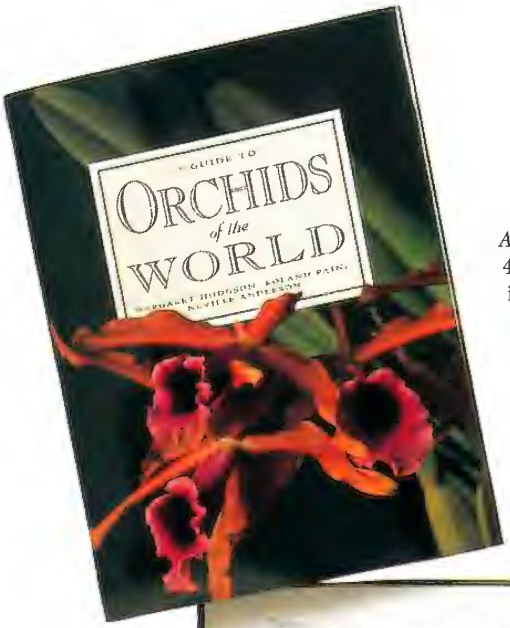
A GUIDE TO

ORCHIDS *of the* WORLD

M. HODGSON R. PAINE N. ANDERSON



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Beautifully presented in full colour, *A Guide to Orchids of the World* is an essential reference for all orchid growers—amateur or professional—and a fascinating guide for bushwalkers and nature lovers throughout the world.

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A Guide to Orchids of the World

Margaret Hodgson, Ronald Paine and Neville Anderson.
Published by Collins Angus and Robertson
236 pp, Hard Cover: RRP $45.00.

This well compiled book features information on identifying more than 450 species.

Unlike most other books of its type, the opening chapters fully explain the structure of an orchid and illustrates in detail leaf and petal shapes.

The main text on orchid genera is arranged in alphabetical order, and provides world maps showing their distribution. Black and white drawings are included to help in identifying the plant type. The authors provide interesting information of derivation of generic names and other historical features. Other areas covered are Classification of Orchids, Pests, Diseases, and Propagation. The text on pollination is interestingly covered. The authors cover the "trap method" of pollination of *Pterostylis nutans* and the genus *Coryanthes.* It also features the pollination of the African genus *Angraecum sesquipidale* by the long proboscis moth *Xanthopan morgani praedicta.*

The illustrations are by Margaret Hodgson, an award winning artist. Ronald Paine is an acclaimed nature photographer. The photography is excellent and the colour plates reproductions are of true colour. Neville Anderson is a well known orchid grower.

In conclusion, an excellent book for the amateur and professional grower alike would enhance a personal or society library.

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Our 1991 list also includes a Den. Falcorostrum selfing and a sibling crossing which should produce results similar to Den. Falcorostrum "Super Glen" (see A.O.R. April 1991)

For those who prefer more exotic Dendrobium seedlings then our listings include a wide variety flower colour and sizes as well as the first from some new Den. tetragonum progeny.

OUR FLASKS are available in THREE sizes: hobby flasks with either 10 to 12 plants or 18 to 22 plants, and commercial flasks of 35 to 45 plants

All crossings listed were replated during April and May and delivery will commence October 1991, providing orders are lodged promptly.

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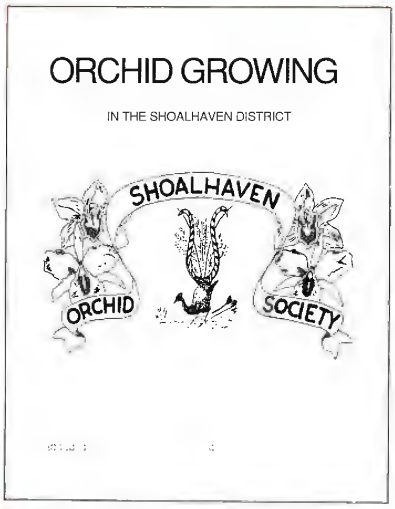
This volume priced at $3.50 plus postage is a very good purchase for the advanced and novice grower.

It can be purchased from Mrs B. Sloan, 24 The Mall, Culburra 2540. Telephone (044) 47 2590.



The Colour Illustrations of Paphiopedilum Species

Mark Fun, Buddy
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This interesting book produced by the author contains photographs of all the known species of *Paphiopedilum* including some of the more recently discovered ones not yet published in other volumes.

The text is very brief and is written in Chinese and English, and gives country of origin, plant morphology, flowering period in the Northern Hemisphere.

For the *Paphiopedilum* enthusiast or species grower, a good volume as a reference book and a reasonably priced book for the society library.

All photographs are in colour showing flower, spike habit and plant.

The book can be ordered direct from the author, Buddy F. Mark, 2, Grampion Road, 3/F, Kowloon, Hong Kong.

Orchid Biology Reviews and Perspectives V

Editor Joseph Arditto
Publisher Timber Press Inc.
451 pp, 51 B&W illustrations, hardbound RRP $58.00 US

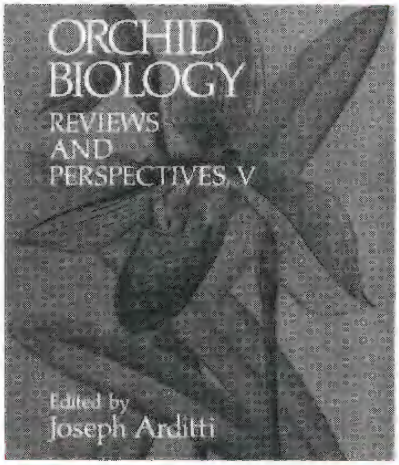
Written in the same vein as the previous four (4) volumes which were published by Cornell University Press.

The present volume reviews the genus *Dactylorhiza* and a chapter on the unique Australian species *Rhizantella gardneri.*

Other chapters cover Orchids in Literature, Auto-Pollination, Orchids on the life of Frits Went and Orchids as a test organism in space. This chapter was written by Soviet botanists T.M. Czerecznko of the Kiev University and I.V. Kosakovskaya of the Central Republic Botanic Garden.

The rather lengthy appendix titled Flowering Months of Orchid Species under Cultivation, contains 5,800 approx. species listing the larger numbers of flowerings in various Northern Hemisphere countries.

This book is essential for all society libraries and for those enthusiasts who own the previous four volumes.



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Stanhopea reichenbachiana

by Barney Greer

Stanhopea reichenbachiana flowered at Collaroy one Sunday in February this year.

By the end of the day three enthusiasts had photographed it. Just as well they wasted no time. In the intense February heat, the flowers were over the hill by Monday evening.

The flowering was on part of a plant tracked down by York Meredith in Colombia during his 1987 trip.

In keeping with its rarity, *S. reichenbachiana* is a most dramatic orchid. The twin flowers are large and densely white. Their large, semi-globular hypochiles, gleaming like por-

S. reichenbachiana — Photo: Wal Utpon.

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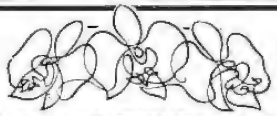

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S. reichenbachiana – Photo: Barney Greer

celain, exude a heavy-sweet perfume reminiscent of jonquils.

S. reichenbachiana was first found in 1879 in remote, almost inaccessible jungle in north-west Colombia. It was described by Roezl and named after its discoverer.

Even into the twentieth century, few roads penetrated those wild, humid rainforest valleys on the Pacific side of the Andes. But now and then, over the years, various orchid explorers in Colombia and Ecuador "discovered" the species again, giving rise to synonymous names such as *S. amesiana, S. lowii* and *S. suave.*

S. reichenbachiana is not finicky. It grows as an epiphyte or on rocks or even as a semi-terrestial. It forms a natural group with *S. grandiflora* (syn. *S. eburnea*) and *S. candida* but it is larger and more handsome than either of these.

With most Stanhopeas, the fertilising process works like this. The bee (not just any bee but one particular species of bee of precisely the right size) is irresistibly attracted to the perfume in the cavern of the hypochile. He scratches at it and becomes hopelessly drunk. When he tries to fly away he blunders into the column and falls, precisely guided by the two horns on the mesochile so that, as he leaves the flower, he collects the pollinia waiting for him at the end of the column.

But with *S. reichenbachiana* there are no horns. The mesochile has, instead, formed itself into a chute!

Now take a look at the photographs, particularly Wal Upton's splendid detail shot of the lip.

Imagine the fertilising bee (identified by Dr Calaway H. Dodson as *Eulaema leucopyga*) homing in on the flower. Enchanted by the storehouse of perfume, he is guided by those seductive purple lines inside the throat which lead him in and on to paradise.

Presumably he takes a Luna Park slide down the chute. Flapping his wings as he emerges, he stumbles back, makes contact with the column and collects the pollinia, stuck firmly onto his thorax. Then off he flies to bring fulfilment to another flower. Amazing. ■

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Winter Orchid Extravaganza on the Gold Coast

Fri, Sat, Sun — 19th, 20th, 21st July, 1991

The Gold Coast area of Queensland has always attracted a variety of visitors from other states, especially in the winter months.

This year, however, an added attraction should draw orchid growers to our "Sunny State" — The first ever Winter Orchid Show held on the Gold Coast — also the first time that SIX Orchid Societies in the area have banded together for a combined Show of any sort. Each of us is proud of the Show we put on — imagine the impact of all SIX of us together!!

The Show will be open to the public from 9am-6pm on the Friday & Saturday — and from 9am-4.30pm on the Sunday. Presentation of prizes will take place at 4.30pm Sunday.

Prizes totalling $1,800 with the GRAND CHAMPION ORCHID Trophy & cash to $500.

The venue is the magnificient Oasis on Broadbeach Shopping Complex, which houses the Pan Pacific International Hotel, situated in the centre of the Gold Coast and connected to the Jupiters Casino by monorail — surely the ultimate location for interstate and other visitors.

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Wal Murphy

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SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
New South Wales				
8 June 9 June	9.00am-5.00pm 9.00am-4.00pm	Winter	Great Lakes	Forster Primary School Middle Street, Forster
13-14 June 15 June	9.00am-5.30pm 9.00am-12.30pm	Winter	Manning River	Manning Mall Taree
20-21 June 22 June	Shopping centre hours Closing 2.00pm	Winter	Maitland and Coalfields District	Market Place Shopping Centre Cessnock
23 June 24-26 June 27 June 28 June 29-30 June	9.00am-4.00pm 9.00am-5.00pm 9.00am-9.00pm 9.00am-5.00pm 9.00am-4.00pm	Winter	Eastern Suburbs	Randwick Village Belmore Road, Randwick
29 June 30-6 June/July 7 July	11.00am-5.30pm 9.00am-5.30pm 9.00am-3.30pm	Winter	Sutherland Shire	Catts' Nursery 80 Port Hacking Road, Sylvania
2 July	8.00pm-10.00pm	Winter	St George	Uniting Church Hall Bay Street, Rockdale
3-6 July	Shopping centre hours	Winter	Cumberland Orchid Circle	Castle Mall Shopping Centre Old Northern Road, Castle Hill
6 July	9.00am-4.00pm	Winter	Southern Riviera	Church Hall, Green Street Ulladulla
11-13 July	Shopping centre hours	Winter	Campbelltown and District	The Mall Shopping Centre Queen Street Campbelltown
12 July 13 July	12 noon-5.00pm 9.30am-5.00pm	Winter	Shoalhaven	Presbyterian Church Hall Kinghorn Street, Nowra
17-20 July	Shopping centre hours	Winter	Coffs Harbour	Palm Centre Coffs Harbour Mall
18-20 July	Shopping centre hours	Winter	Illawarra District	Crown Gateway Wollongong
24-27 July	Shopping centre hours	Winter	Parramatta and District	Seven Hills Centre Seven Hills
1-3 August	Shopping centre hours	Early Spring	Maitland and Coalfields District	Thorton Mall Thorton
Queensland				
5 June	8.00pm-9.30pm	Winter	Ipswich	Humanities Building Ipswich
12-13 July	9.00am-5.00pm	Winter	Caboolture	Caboolture Civic Centre King Street, Caboolture
17-19 July	9.00am-10.00pm	Winter	North Queensland	Cairns Agricultural Show, Horticulture Pavillion, Showground
26-28 July	Show times	Winter	Tully District	Annual Agricultural Show
27 July 28 July	9.00am-5.00pm 9.00am-4.00pm	Winter	John Oxley District	Mt. Cootha Botanic Gardens Auditorium Brisbane
1-2 August 3 August	8.30am-5.30pm 8.30am-12 noon	Winter	Toowoomba	Clifford Gardens

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
8-10 August	Shopping centre hours	Winter	Redcliffe District	The Mall Sutton Street, Redcliffe

Victoria

6-7 July	10.00am-5.00pm	Winter	Geelong Orchid and Indoor Plant Club	St. Johns Ambulance Hall Myer Street, Geelong
20-21 July	10.00am-4.30pm	Winter	Sunraysia	Greek Hall Elizabeth Street, South Mildura

South Australia

20-21 July	9.00am-4.00pm	Winter	Port Lincoln	Kallinyalla Nursery Shaen Street, Port Lincoln
13-14 July	9.00am-4.30pm	Winter	Orchid Club of SA	St. Peters Town Hall Payneham Road, St. Peters
18 July 19 July 20 July	9.00am-9.00pm 9.00am-5.00pm 9.00am-12 noon	Winter	Mount Gambier and District	Lakes Plaza Shopping Complex
20 July 21 July	9.00am-5.00pm 10.00am-4.00pm	Winter	Gawler Districts	Gawler South Parish Hall Adelaide Road, Gawler
2 August 3 August	noon-7.00pm 9.00am-4.00pm	Winter	Murray Bridge and Districts	John Dohler Hall Swanport Road, Murray Bridge

Western Australia

24 July 25 July 26 July 27 July	7.00pm judging 8.30am-9.00pm 8.30am-5.00pm 8.30am-1.00pm	Winter	Bunbury	Bunbury Forum
25-27 July	8.00am-5.00pm	Winter	Wanneroo	Warwick Grove Shopping Centre Beach Road, Warwick
31/3 July/August	Shopping centre hours	Winter	Mandurah	Rockingham Shopping Centre
1-3 August	Shopping centre hours	Winter	Albany	North Road Shopping Complex
8-10 August	Shopping centre hours	Winter	Northern Districts	Mirrabooka Shopping Centre Mirrabooka

Northern Territory

25-27 July	Show times	Winter	Nightcliff	Royal Darwin Show Showgrounds Tate Street, Darwin

Tasmania

28-31 May	Banking hours	Autumn	Tasmanian	Westpac Bank 38 Elizabeth Street, Hobart

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